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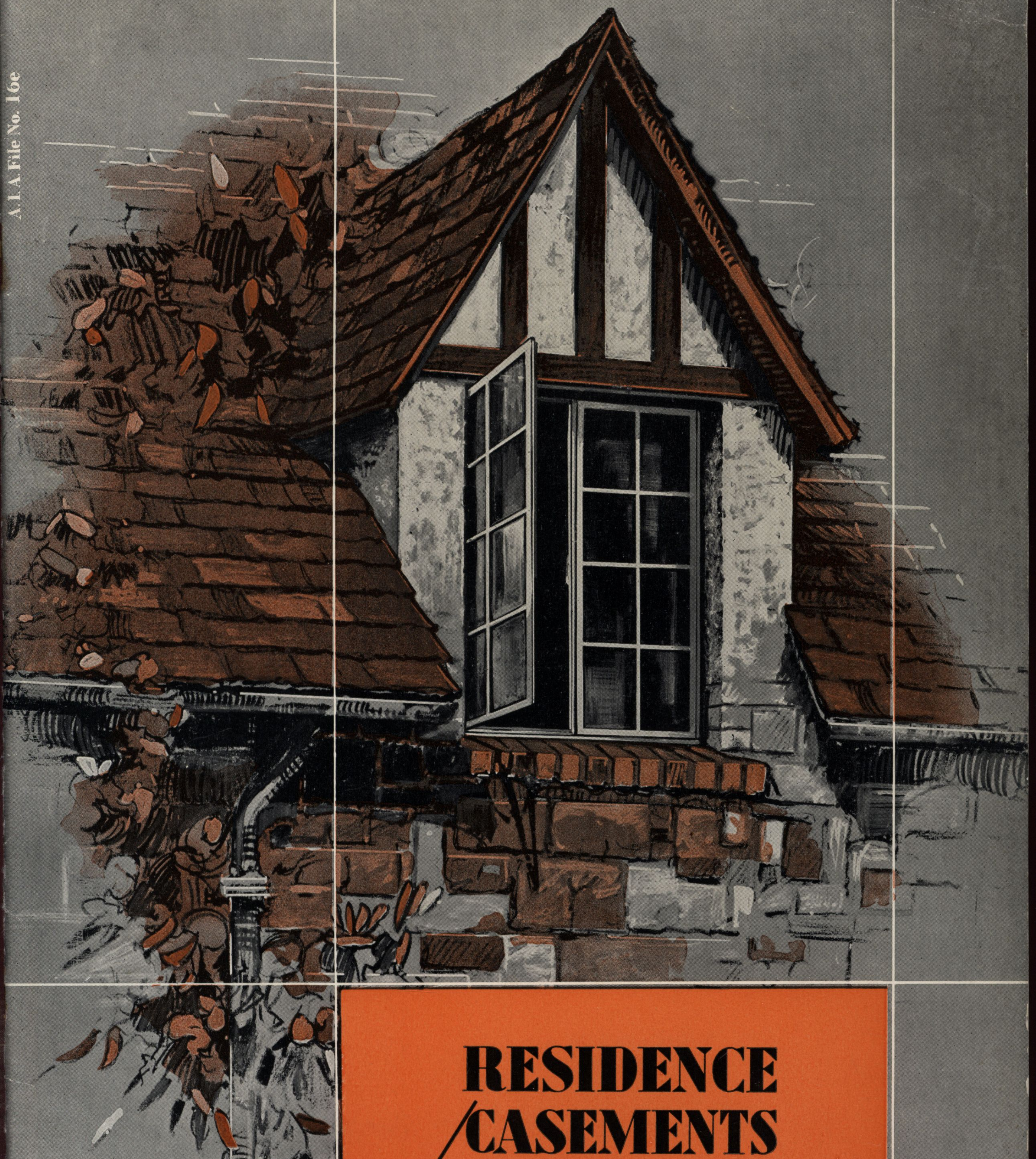


RESIDENCE CASEMENTS

by TRUSCON

Copyright October, 1939

TRUSCON STEEL COMPANY
Youngstown, Ohio

TRUSCON RESIDENCE STEEL CASEMENTS

Series Five

In Numerous Types and Sizes to Conform to Individual Requirements and Permit Widest Range of Design Freedom and Unlimited Scope of Window Arrangements.

TRUSCON STEEL COMPANY
YOUNGSTOWN, OHIO
SUBSIDIARY: REPUBLIC STEEL CORPORATION

TRUSCON RESIDENCE CASEMENTS

STURDY SECTIONS

Compare the weight and size of Truscon sections. Their sturdy size insures against ventilator "sag" and effectively resists distortion under normal conditions of use. No attempt to economize on weight of steel at the expense of strength and rigidity is evident in the generous size of Truscon's steel casement sections.

COLD-ROLLING PROCESS

Preliminary to cutting the steel to the lengths required for fabrication, all sections are passed through a series of rolls which cold-form the shapes to exact scheduled size and straighten them true to line. The value of the extra equipment and the additional labor required for this refinement lies in the resulting perfection of weathering contacts between the ventilator and window frame. In the Truscon product, these contacts are continuous and uniform—not on the occasional window—but on every unit of the 534 Light Casement designs which are catalogued.

CORNER WELDS

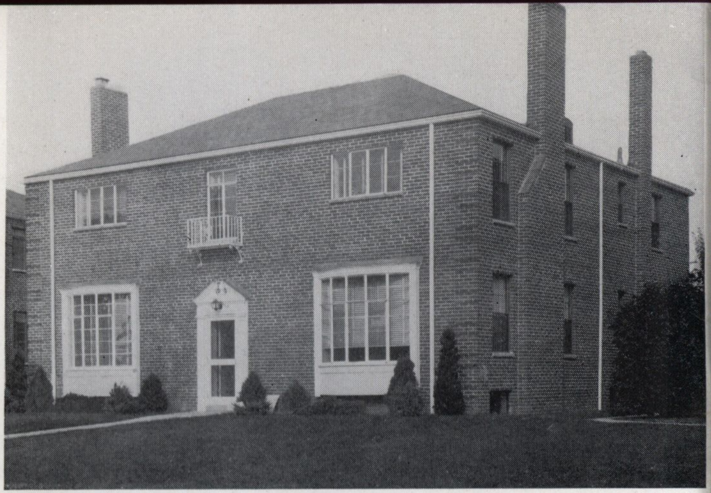
Truscon's shop process utilizes the more laborious grinding-by-hand operation to remove surplus welding material at all corner joints. This results in smooth uniform weathering contacts and accurately squared corners. The rigid inspection of all production before passing for bonderizing and painting insures adherence to the exacting quality standards usually found only in the highest grade custom-made casements.

MUNTIN DESIGN

Truscon manufactures a complete line of Horizontal Muntin designs and allows an appropriate reduction in cost for these types. All Truscon cross joints are flush, and both horizontal and vertical muntins are of the same depth. This permits equal putty reveals and so contributes to an attractively finished and easily cleaned window surface on both interior and exterior sides.

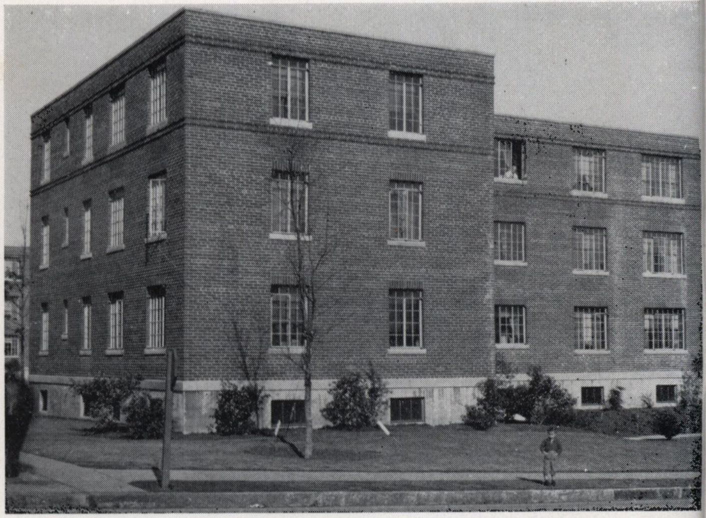
HINGE CONSTRUCTION

The "projection-welding" method of applying the extension hinge-leaf to the ventilator results in a stronger and yet less obtrusive construction than the customary riveting process with exposed rivet



WALLACE ACKLEY APARTMENT, Columbus, Ohio
Charles Inscho, Architect

C. J. MEYERS, JR. RESIDENCE, Cincinnati, Ohio
Daniel M. Rees, Architect



LAUDERDALE COURTS HOUSING PROJECT
Memphis, Tenn.

heads. Furthermore, Truscon's system permits the positive lining up of the hinge-leaf on the frame with the hinge-leaf on the vent and eliminates "hinge bind." The steel rust-proofed hinge-pin, bronze-bushed, as used by Truscon, guards against loose, ill-fitting vents as may occur with bronze hinge pins under continued wear.

PAINT FINISH

In addition to the removal of mill scale by the cold-rolling process, Truscon's standard painting operation is in accordance with the most advanced shop priming practice. Couple the scientific Bonderizing preparatory process with Truscon's high grade Bakelite (phenol-resin) base dip-primer followed by not less than one hour's oven baking at 300 degrees temperature and the result is a tight, smooth, evenly laid, hard paint coat that withstands abrasion and has an effective life, three to five times greater than ordinary dip painting, air dried. This treatment affords an effective priming coat for the new enamel and brush lacquer paints as well as for ordinary lead and oil paints.

QUALITY HARDWARE

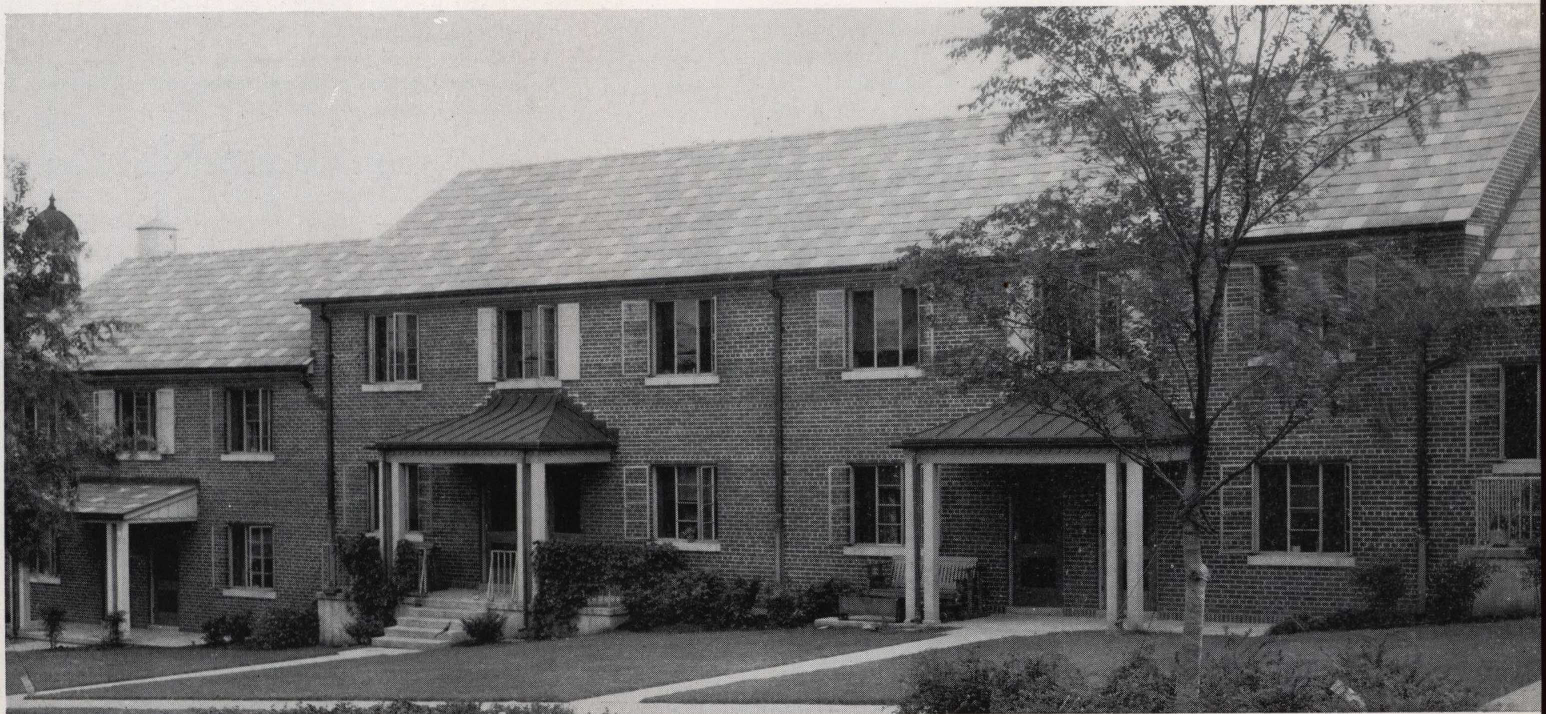
In the Roto types, the sturdy solid-bronze locking handle matches the exclusively designed Truscon gear operator. For Simplex vents, the die-cast bronze-finished locking handle is substantial in pattern and of pleasing design. Nothing can give an owner so much trouble as cheap or poorly designed hardware. Truscon's hardware items are of the very highest quality obtainable.

CLOSE FITTING VENTILATORS

Because of the unusual preparatory treatment of steel sections before fabrication plus the use of the most modern automatic fabricating machinery, Truscon casements do not require extensive field adjustment to reduce air and dust infiltration. Fuel savings are an important consideration in northern climates.

COLLATERAL EQUIPMENT

The Screens and Insulating Windows are produced in exclusive Truscon designs by the largest and foremost manufacturer of these products. Attaching provisions are positive and convenient. Before shipment, temporary screws are placed in the tapped holes provided for hardware attachment. This prevents field paint or putty from clogging screw-threads and eliminates retapping in the field. Glass breakage is also prevented by the clearing of putty from these same holes. A die cast "stool gauge" is furnished and shipped attached on all Roto casements to insure accurate location of the stool during construction and before gear operator is attached. These refinements are only a few of the many offered by Truscon in the unexcelled quality of its Light Casement products.



CHEATHAM HOUSING PROJECT
Nashville, Tenn.

THE BONDERIZING PROCESS WHAT IT IS---AND WHAT IT ACCOMPLISHES

In standard practice, Truscon Bonderizes all Residence Casements, Basement Windows and Steel Lintels.

Difficulty of maintaining paint finishes is due to three main causes: (1) corrosion of the underlying metal, (2) lack of adhesion of the paint film and, (3) lack of durability of the organic paint film itself. The function of the Bonderizing process is to provide the steel surface with a rust-resisting coating, which, in turn, forms the basis for overcoming the first two of these difficulties. The third is overcome by the use of Truscon's special paint formula.

Truscon's Bonderizing and painting equipment is 100% automatic. A mechanical conveying system carries the windows through the eleven different washing, dipping, rinsing, drying, painting and baking operations which, together, form this scientific rust-resisting treatment.

The Bonderizing process converts the surface of the steel to a protective coating through the chemical reaction between the metal and the Bonderizing chemicals. The resultant composition is insoluble in water and hence highly resistant to moisture. Chemically, it is a non-metallic phosphate coating composed of millions of microscopic crystals, integral with the metal. Its fine-grain, toothed surface provides a perfect mechanical bond, securely anchoring the paint to the steel.

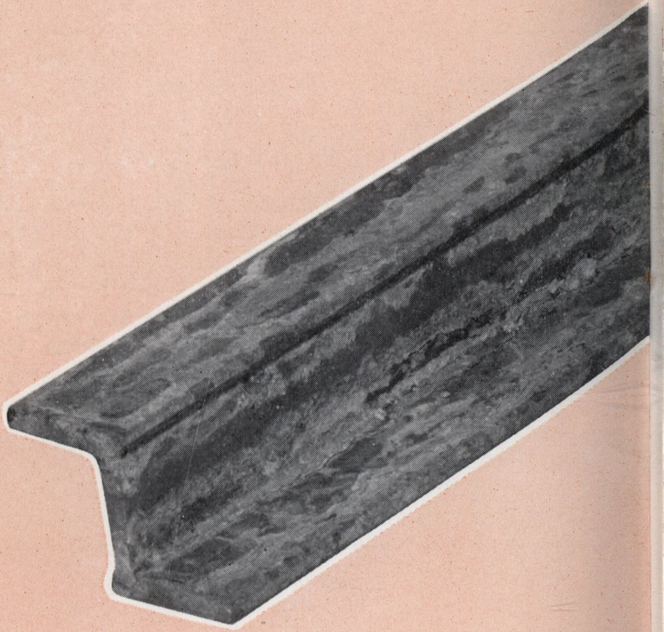
Should the paint film become scratched or broken down in any way, rust will be confined solely to the damaged area. The tight Bonderized coat sets up an effective resistance to the creeping of moisture, and with it the rust area, beneath the adjacent undamaged paint film.

This special process also thoroughly cleans the steel surface by completely removing the last traces of any grease or surplus oil that may have been picked up and carried along by the steel in the cutting and forming operations incident to fabrication. It also neutralizes any residual alkali or surface rust remaining on the steel.

After Bonderizing and drying, the automatic machinery immerses the windows in a paint tank. Truscon's dark gray primer is a high grade Bakelite base (phenol-resin) paint made to a special formula. After the surplus paint has drained off, the windows are baked for one hour in a heat of 300°. The final result is an extremely tough, tight primer, highly resistant to abrasion and forming a perfect base for field painting, either in lead and oil, or in the newer, quick-drying enamels.

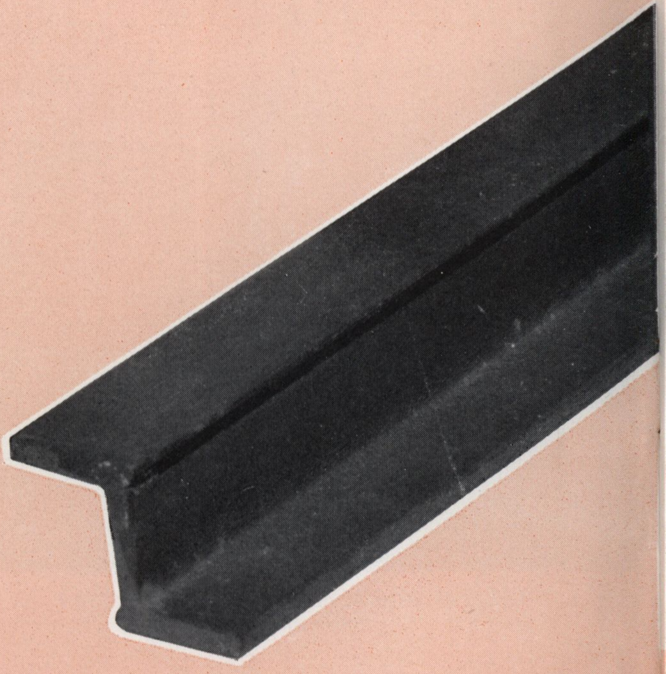
A number of years experience in the automotive field as well as actual exposure tests have demonstrated that a good quality prime coat will have from three to five times greater life with Bonderizing than when applied to ordinary steel surfaces.

The obvious economy of reduced maintenance costs throughout the entire life of the building structure, prompts the careful buyer to insist upon Truscon Bonderized windows.

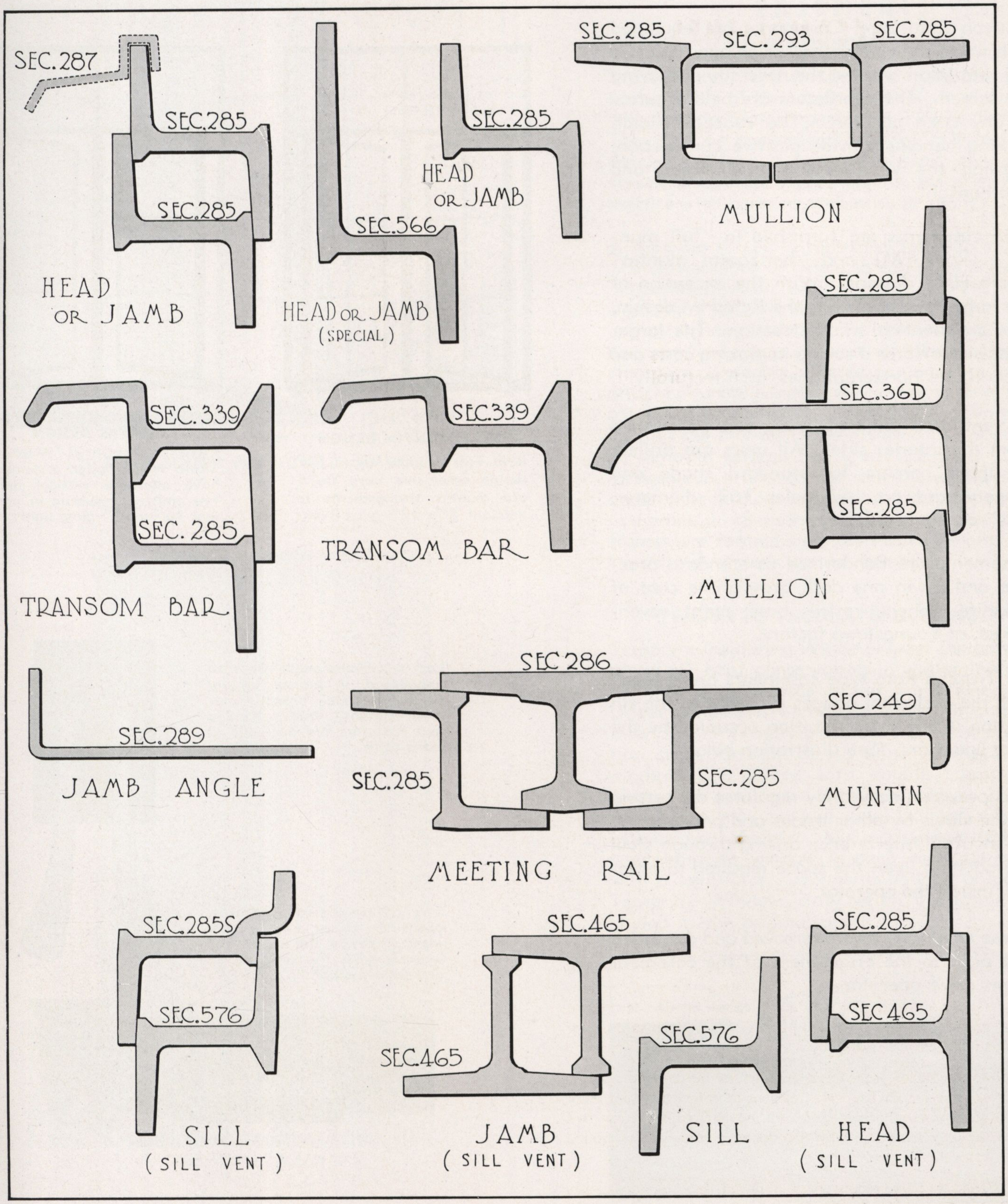


Above:
Actual photograph of casement section, **painted but not bonderized,** taken after 250 hours of salt spray test.

Below:
Actual photograph of casement section, **bonderized before painting,** taken after 250 hours of salt spray test.



FULL SIZE SECTIONS



RESIDENCE ROTO TYPE CASEMENTS

Truscon Roto Steel Casements are equipped with worm drive operators which open or close the ventilators without the necessity of moving the screen. The ventilators are held securely in any open position. The concealed-latch locking handles provide positive cam action, drawing the ventilators tightly closed and weathertight.

Roto casements are furnished in "full muntin" (Roto FM) and "horizontal muntin" (Roto HM) designs. With the exception of the larger glass lights in the Roto HM design, they are identical in construction. The larger glass size affords a saving in glazing costs and accentuates horizontal lines, architecturally.

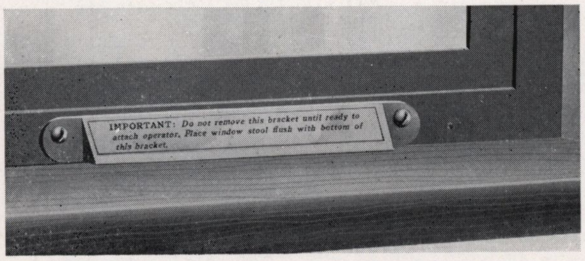
In ventilated units all glass can be washed from the interior side. All units are drilled, in upper corners for standard shade and drapery hardware (two holes .169" diameter, 1 1/4" on center).

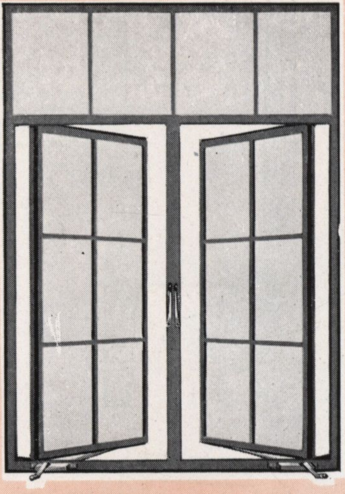
Casements are Bonderized as standard practice and given one dark gray prime coat of Bakelite (phenol-resin) base paint, oven-baked, at Youngstown factory.

All Truscon Roto type casements are shipped with die-cast stool gauges attached to the sill section in the exact position occupied by the gear operators. (See illustration below.)

This provision accurately regulates the setting of the stools by other trades and prevents the oft-incurred interference arising through stool encroaching upon the space required to properly install the operator.

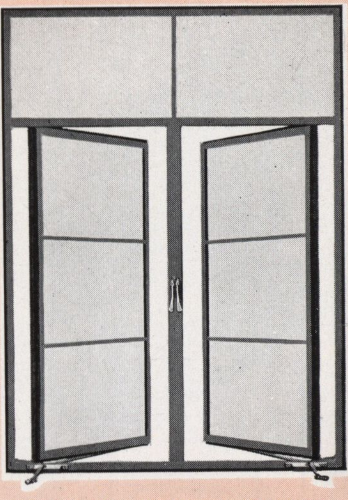
These stool gauges are removed and discarded just prior to the attachment of the casement worm drive operator.


IMPORTANT: Do not remove this bracket until ready to attach operator. Place window stool flush with bottom of this bracket.



ROTO "FM"
FULL MUNTIN DESIGN

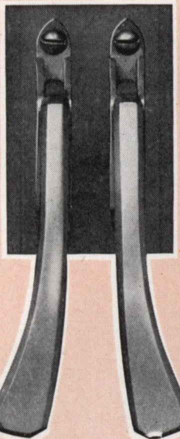
Roto Full Muntin (Roto FM) design casements have standard muntin arrangements for nominal 8" x 12" glass lights.



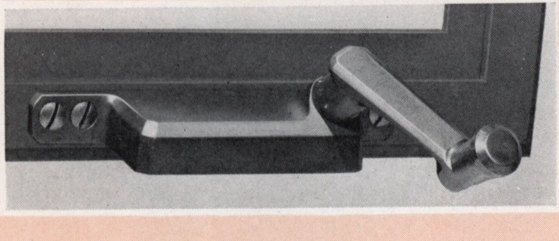
ROTO "HM" HORIZONTAL MUNTIN DESIGN

Roto Horizontal Muntin (Roto HM) design casements have alternate vertical muntins omitted, resulting in nominal 16" x 12" glass lights.

Locking handles are solid bronze unpolished, in bronze lacquer finish. Polished bronze (medium statuary finish) handles and operators are available at extra price.



The Worm Drive Operator, opens or closes the window without moving the screen and securely holds the ventilator in any open position.

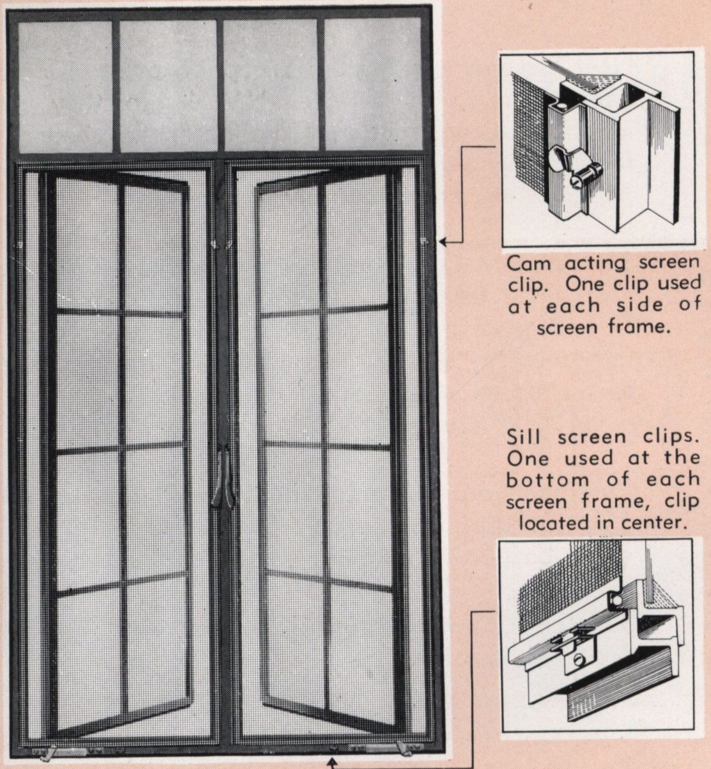


SCREENS AND TEMPRYTE WINDOWS FOR ROTO CASEMENTS

FIXED SCREENS

Truscon Roto Type Casement screens are attached to the inside of the window. They do not interfere with the ventilator opening or closing movement. They may be conveniently and quickly installed or removed. Since it is not necessary to move the screen to operate the casement, there is no interference with curtains, draperies or shades.

A separate screen is furnished for each ventilator. The convenience of single screen units is especially appreciated when removing the screens to wash windows or to store during winter months. Screens are interchangeable for the same size ventilators, and require no tagging or other identification. Installation is simple. Three screen clips are first attached to the window, the screen is then put into place by merely setting it on the bottom clip and locking the two cam acting side clips. Screens can be removed without taking off the clips. Clips are inconspicuous and do not mar the window appearance. Screen cloth is 16 mesh bronze wire .0113″ in diameter. 18 mesh available at extra cost. Screen frames are formed steel with Bakelite gray enamel finish. All screens can be rewired.



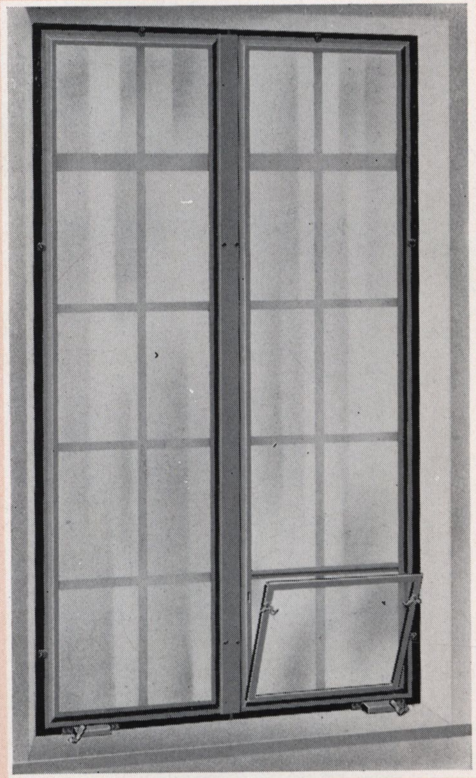
Cam acting screen clip. One clip used at each side of screen frame.

Sill screen clips. One used at the bottom of each screen frame, clip located in center.

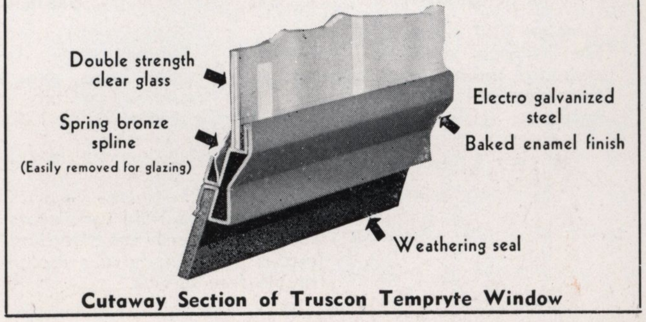
FIXED SCREEN FOR ROTO CASEMENTS

TEMPRYTE INSULATING WINDOWS

Tempryte Insulating Windows meet the growing demand for heat conservation in winter months and for all-season service in air conditioned homes. Under conditions of normal moisture content for interior air, Tempryte windows prevent condensation and formation of ice film. These insulating windows are glazed with double strength clear glass. Integral ventilators permitting controlled ventilation may be had provided order is placed with original contract. We recommend that at least one Tempryte window in each room be equipped with a ventilator. Casements will be prepared for Tempryte Windows only when the latter are included in the original order.



TEMPRYTE INSULATING WINDOW
FOR ROTO CASEMENTS



Cutaway Section of Truscon Tempryte Window

RESIDENCE SIMPLEX TYPE CASEMENTS

While Simplex Casements are priced lower than Roto Casements, the quality and workmanship are identical. The lower price level arises through the elimination of the worm drive operators and the substitution of friction-type hinges.

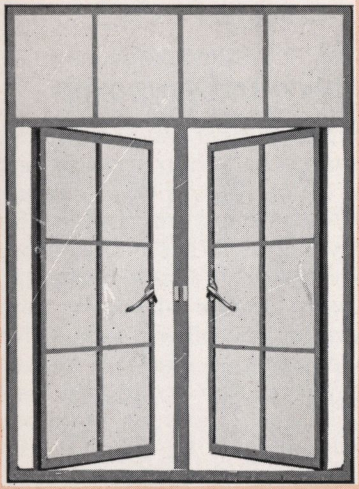
Simplex Casements have cam locking handles with which ventilators are manually opened or closed. Hinges are of special friction design holding the ventilator in any open position.

Simplex Casements are furnished in "full muntin" (Simplex FM) and "horizontal muntin" (Simplex HM) designs. With the exception of the larger glass lights in the Simplex HM design, they are identical in construction. The larger glass size affords a saving in glazing costs and accentuates horizontal lines, architecturally.

Simplex HM Casements are stocked only in those sizes most frequently used in residential building. In ventilated units all glass can be washed from the interior side. All units are drilled in upper corners for standard shade and drapery hardware (two holes .169" diameter, 1 1/4" on center).

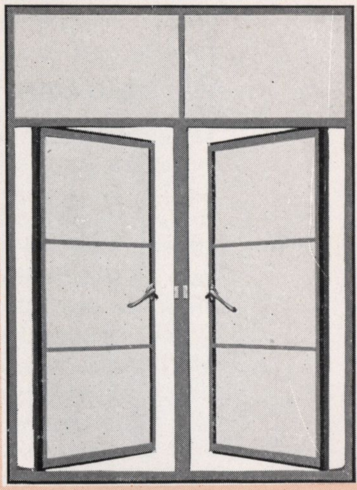
Casements are Bonderized as standard practice and given one dark gray prime coat of Bakelite (phenol-resin) base paint, oven-baked, at Youngstown plant.

Simplex Casements are screened with Truscon wicket style screens as described on opposite page.



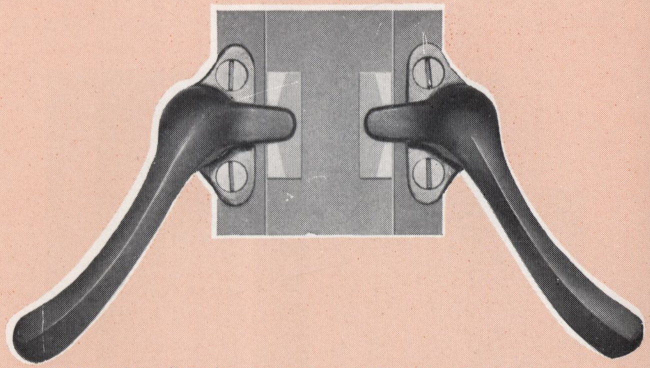
SIMPLEX "FM"
FULL MUNTIN
DESIGN

Simplex Full Muntin (Simplex FM) design casements have standard muntin arrangements for nominal 8" x 12" glass lights.

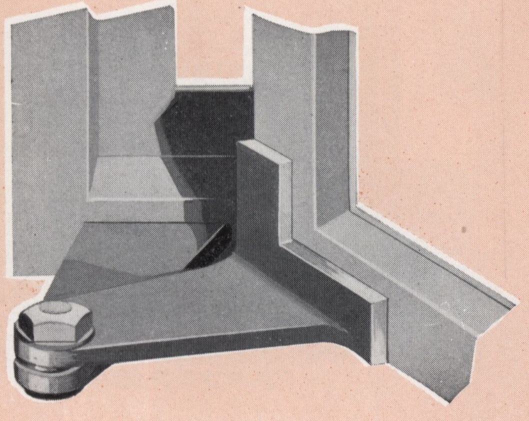


SIMPLEX "HM"
HORIZONTAL MUNTIN
DESIGN

Simplex Horizontal Muntin (Simplex HM) design casements have alternate vertical muntins omitted, resulting in nominal 16" x 12" glass lights.

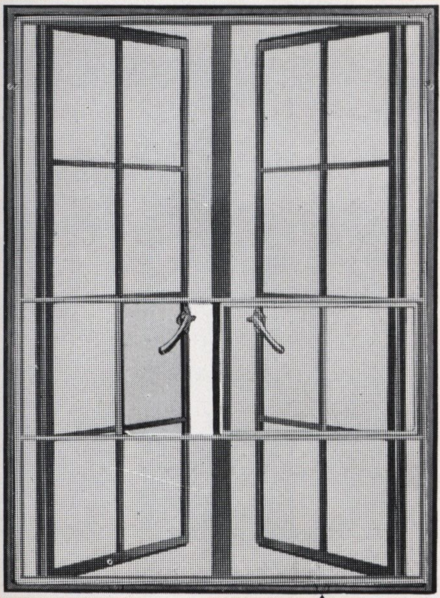


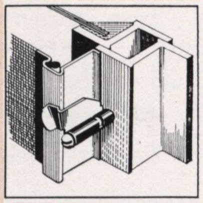
Locking handles have cam action drawing ventilators weathertight. Locking handles are bronze-lacquered. Polished solid bronze handles, medium statuary finish, are available at extra price.



Friction hinges hold ventilators in any position. Bronze washers and bushings affording friction contacts between ferrous and non-ferrous material only, assure long and trouble-free service.

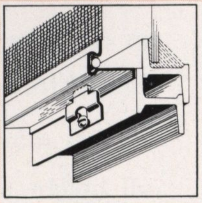
SCREENS AND TEMPRYTE WINDOWS FOR SIMPLEX CASEMENTS



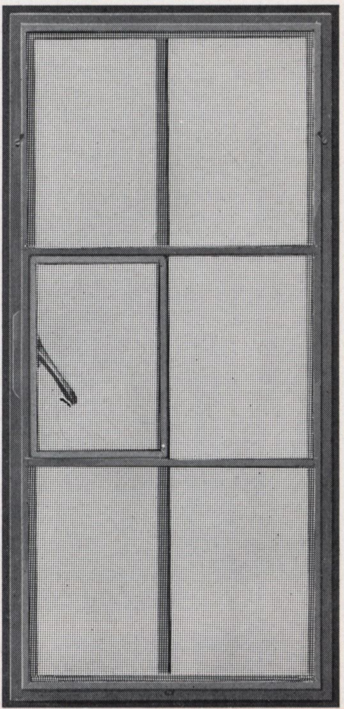


Cam acting screen clip. One clip used at each side.

Sill screen clip. One used at the bottom of each ventilator.



NOTE: Sliding the wicket to the left will serve to uncover the locking handle for the opposite ventilator. Thereafter, the wicket is moved back to a mid-position where it is automatically seated to fully cover the aperture opposite both handles.



WICKET SCREEN

Truscon wicket screens, as designed for use with Simplex casements, offer a maximum of screening simplicity and economy. To open or close the ventilator, it is only necessary to slide open a small wicket. In Truscon's exclusive design, the sliding wicket allows ample room (a full 8 inches in width) for the hand and arm to reach through the screen aperture when opening or closing the ventilator.

The sliding wicket may be moved to its closed position when the window is pulled shut and locked, thus excluding any insects which may be trapped between the screen and ventilator.

Truscon wicket screens are installed with clips on the interior side and are easily and quickly removed to wash the window or to place the screens in storage during the winter season.

In keeping with the lower price level for Simplex Casements, wicket screens are furnished with one single screen covering a pair of adjacent ventilators occurring in any one window unit.

Screen cloth is 16 mesh bronze wire .0113" in diameter. 18 mesh available at extra cost. Screen frames are formed steel with Bakelite gray enamel finish. All screens are rewireable.

NOTE: For conditions or climates where it is absolutely essential that there be no opening of the window screen, the use of Roto type casements and fixed screens is recommended.

TEMPRYTE INSULATING WINDOWS

Tempryte Insulating Windows are also available for the economical Simplex Casement. In design and construction they are generally similar to that described for the Roto type, except that a hinged wicket is provided over each locking handle to permit operation of ventilator when desired. The wicket is also glazed with double strength clear glass. Sill vents are not available or necessary in this design.

ROTO "SILL-CONTROL" LOCK

AVAILABILITY

Will be shipped from Youngstown only on special order. Minimum shipment — 3 weeks.

DESCRIPTION

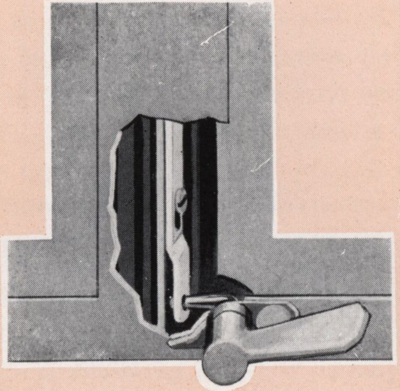
This new development in steel casement hardware permits the locking and unlocking of either a single vent or a pair of adjacent vents through the movement of a finger-grip lever located at the sill. The customary locking handles near the horizontal center line of vent are eliminated. The lever action actuates a vertical rod concealed in the space between the vent and sash frame members. The concealed keepers on the ventilator section are of the same design and in the same location as standard for Roto Casements. The vertical rod carries a round bolt at its upper end which, in turn, engages with the vent keeper (or keepers, in the case of a double vented unit.)

ADVANTAGES

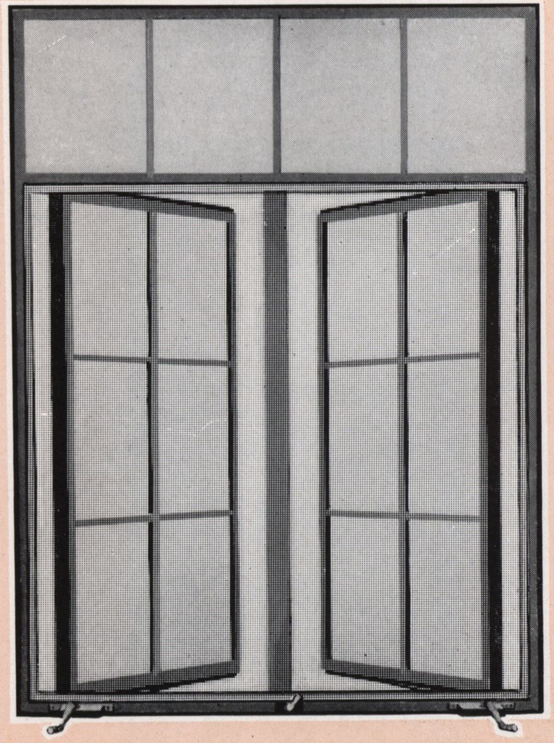
Permits locking and unlocking of a window and complete vent control without raising Venetian blinds or shades.

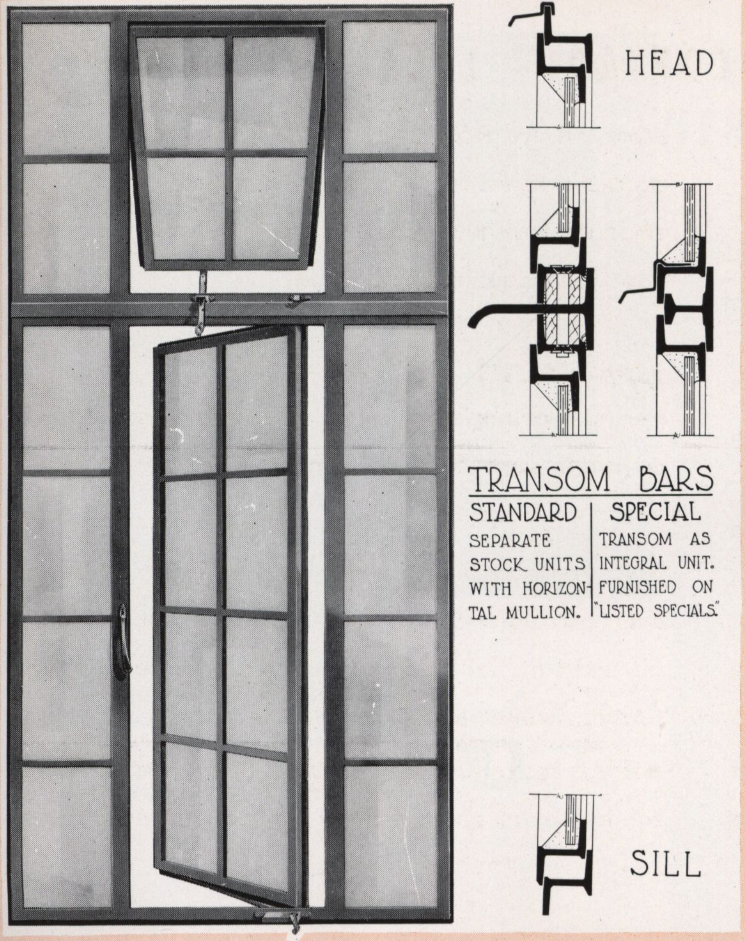
Gives the economy of a single screen to be installed over two adjacent vents without the necessity of an aperture for locking handles. (Screens have formed frames and cam acting clips.)

Affords maximum convenience of operation where sill height is above normal distance from floor.



Cut-away view of "Sill-Control" Lock



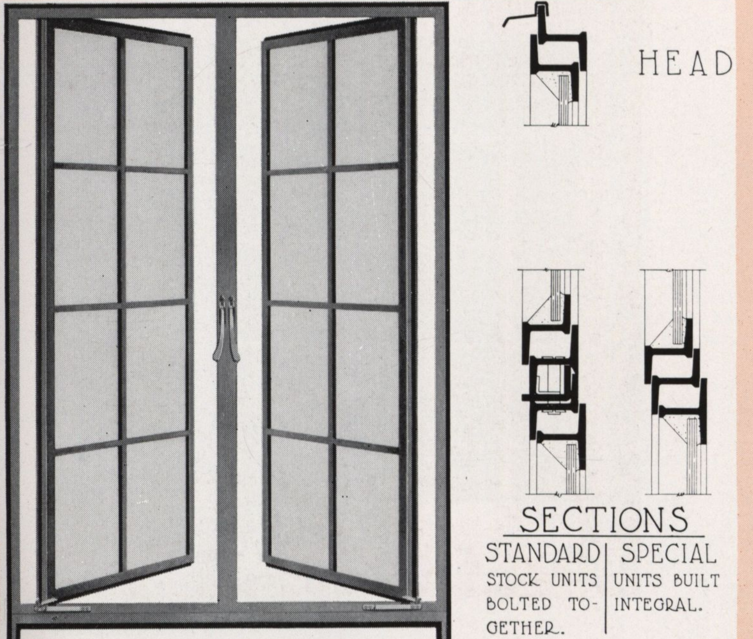

HEAD
TRANSOM BARS
STANDARD
SEPARATE STOCK UNITS WITH HORIZONTAL MULLION.
SPECIAL
TRANSOM AS INTEGRAL UNIT. FURNISHED ON "LISTED SPECIALS."
SILL

RESIDENCE CASEMENT WITH TRANSOM VENTILATOR

TRANSOM VENTILATORS

Transom ventilators are top-hinged to open out, thereby giving the protection of an awning style opening during inclement weather. Each ventilator is hung on two heavy hot-rolled steel close-up hinges welded to vent and frame. Hinges have bronze bushed steel pins and bronze contact washers. Operating hardware consists of a bronze lacquer finish push bar working through the transom sill member and providing complete control of the ventilator without moving the screen.

Standard transom ventilators are designed either for use as individual units or they may be bolted to the heads of standard casements. In "listed special" units having transom ventilators, the latter are built as an integral part of the window unit. On small orders "listed special" units are slightly higher in cost, but on large orders requiring a good quantity in the same size and type the cost per opening will prove much less than for assembled units.



RESIDENCE CASEMENT WITH SILL VENTILATOR

SILL VENTILATORS

Sill ventilators are bottom-hinged to open in. They provide a most convenient form of controlled and draft-free ventilation. This design is proving increasingly popular for apartment house use. Each ventilator is equipped with two steel butt hinges and two concealed friction adjusters. The locking handle is furnished in either Roto or Simplex design matching the hardware for the casement unit to which the sill ventilator is attached.

Standard sill ventilators are designed either for use as individual units or they may be bolted to the sill of standard casements. Sill ventilators built as an integral part of the compete window unit will be furnished on special order. Sill ventilators, when bolted to standard casements, increase the opening height by 1′-0¼″; sill ventilators, when used as individual units, require an opening height of 1′-1″

CONTINUOUS FINS FOR RESIDENCE CASEMENTS

ROTO AND SIMPLEX TYPES

The use of continuous fins is recommended for all residence casements set in brick veneer or solid masonry installations. Continuous fins, attached to the casements before shipment, provide the most economical and weathertight method of installation.

In veneer construction, casements are attached direct to the wood framing with nails driven through holes punched in the fins before shipment. In solid masonry construction the fins provide a deep and weathertight anchorage.

Fins are furnished only when specifed and at extra cost.

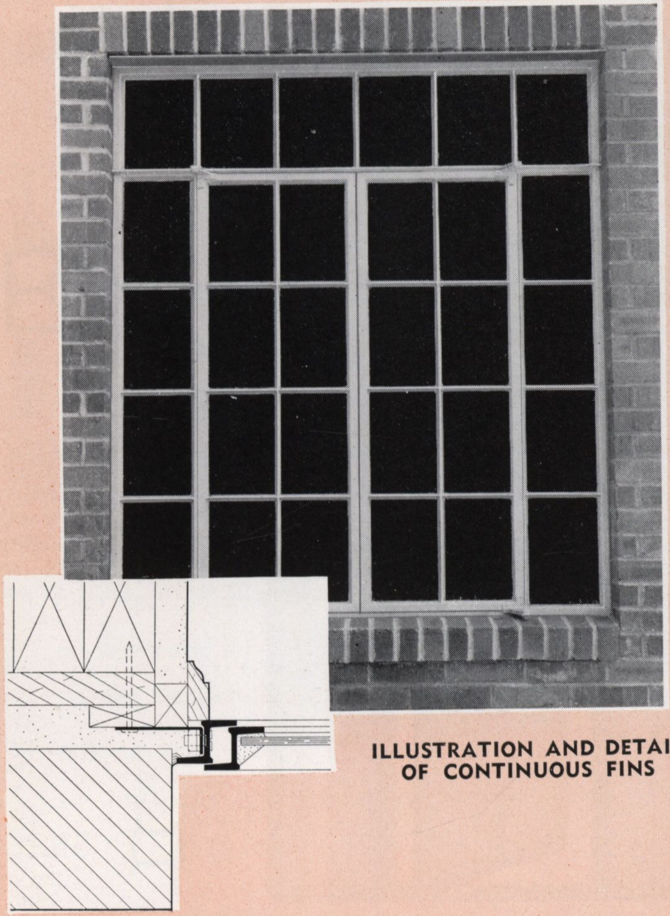


ILLUSTRATION AND DETAIL OF CONTINUOUS FINS

WOOD SURROUNDS FOR RESIDENCE CASEMENTS

ROTO AND SIMPLEX TYPES

Truscon wood surrounds, of unpainted, clear heart redwood, are recommended for use with all Casements when an outside molded trim is desired.

Wood surrounds are shipped in exact sizes with all corners mitered or mortised ready for attachment to the casements. No further cutting is necessary. Wood screws are included. Wood surrounds must be attached to casements before installation.

Wood surrounds are furnished only when specified and at extra cost. For casements delivered from warehouse stock by truck they may be shipped on an "attached" basis.

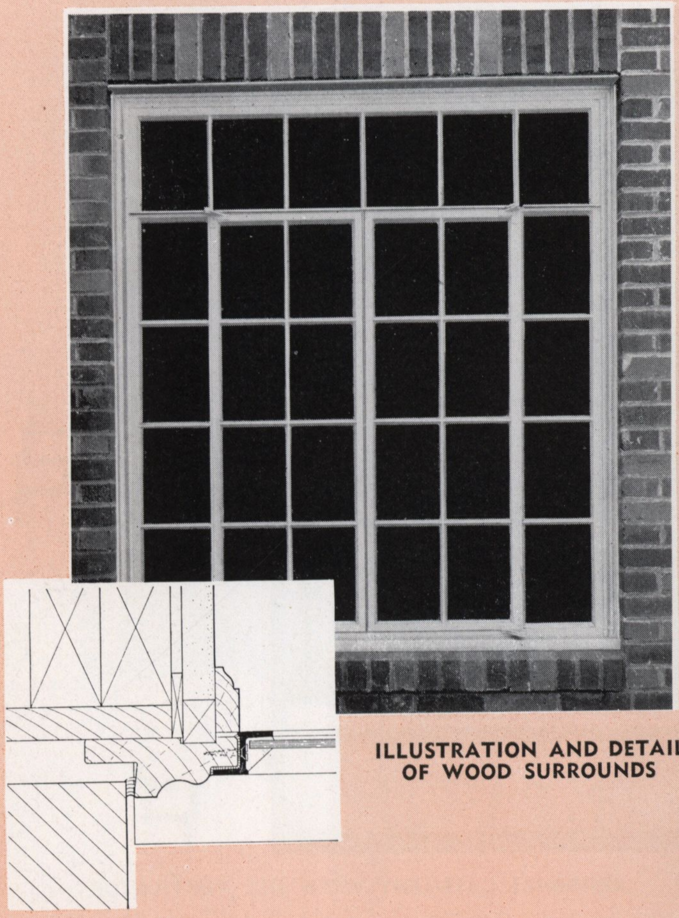


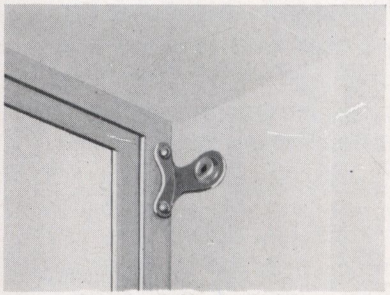
ILLUSTRATION AND DETAIL OF WOOD SURROUNDS

PLEASING COMBINATIONS OF RESIDENTIAL DOUBLE-HUNG AND CASEMENT WINDOWS

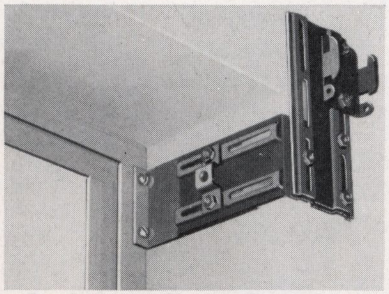
Pleasing departures from conventional window treatments are provided by well-planned combinations of Truscon Residential Double-Hung Steel Windows and Casements. An almost infinite variety of such individualized window combinations is made possible by the many standard types and sizes in each of these two general window classifications. Here is a practical solution to the problem of giving a house a distinctive "personality" without adding to its cost. Obviously, the idea may be as successfully employed in the house of moderate size as in the more pretentious residence.

STANDARD SIZES—SERIES 138 RESIDENTIAL DOUBLE-HUNG WINDOWS

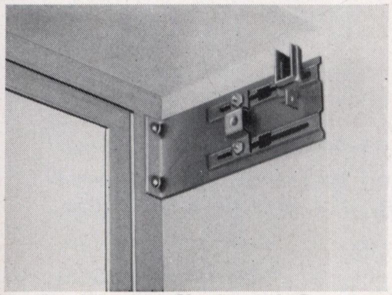
1'-9¼" x 3'-4⅝"
2'-1¼" x 3'-4⅝"
2'-5¼" x 3'-4⅝"
2'-9¼" x 3'-4⅝"
3'-1¼" x 3'-4⅝"
3'-5¼" x 3'-4⅝"
1'-9¼" x 4'-0⅝"
2'-1¼" x 4'-0⅝"
2'-5¼" x 4'-0⅝"
2'-9¼" x 4'-0⅝"
3'-1¼" x 4'-0⅝"
3'-5¼" x 4'-0⅝"
1'-9¼" x 4'-8⅝"
2'-1¼" x 4'-8⅝"
2'-5¼" x 4'-8⅝"
2'-9¼" x 4'-8⅝"
3'-1¼" x 4'-8⅝"
3'-5¼" x 4'-8⅝"
1'-9¼" x 5'-4⅝"
2'-1¼" x 5'-4⅝"
2'-5¼" x 5'-4⅝"
2'-9¼" x 5'-4⅝"
3'-1¼" x 5'-4⅝"
3'-5¼" x 5'-4⅝"



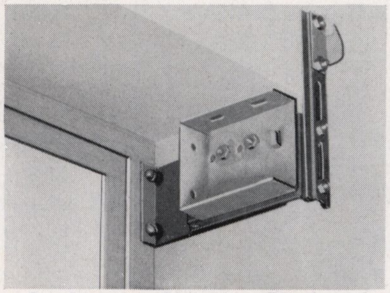
Standard Shade Bracket



Combination Shade, Curtain and Drapery Bracket



Combination Shade and Curtain Bracket

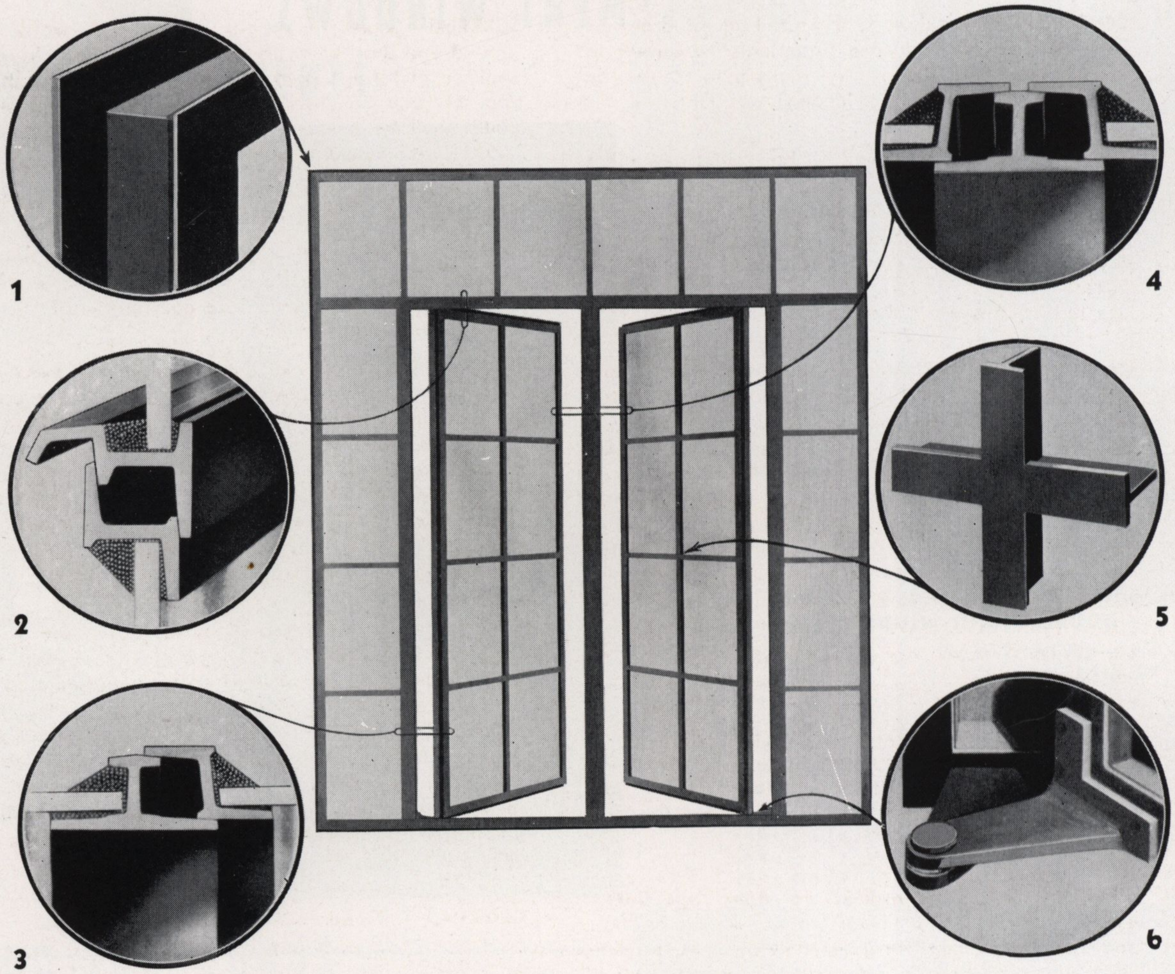


Combination Venetian Blind and Drapery Bracket

SHADE BRACKETS

All windows are provided in upper corners with open drilled holes (1¼" on centers for No. 8 self-tapping screws) to receive standard shade brackets. Standard and special shade brackets and combination brackets are to be furnished by others.

CONSTRUCTION FEATURES



All sections are re-rolled cold to remove all scale and to cold-form the shapes to exact scheduled size and straighten them true to line.

Windows are Bonderized and primed with Truscon's high grade Bakelite (Phenol-resin) base dip-primer oven baked for one hour at 300° Fahr.

1. CORNERS—All corners are mitred and electrically butt welded. Exposed faces are **ground** smooth resulting in positive weathering contacts and accurately squared corners.
2. TRANSOM BAR—Heavy hot-rolled section with integral drip. Runs continuous from jamb to jamb.
3. VENT SUPPORTING BAR—Heavy hot-rolled full tee section. Will not twist or rack.
4. MEETING RAIL—Heavy hot-rolled full tee section mortised and tenoned and welded to frame and to transom bar. Will not twist and assures maintenance of double flat weathering contact with vent.
5. MUNTIN DESIGN—Flush cross-joints and equal depth sections for both horizontal and vertical bars. Equal putty reveals. Easily cleaned.
6. HINGE—Leaves are blanked from hot-rolled angles, pressure-welded to vent and arc-welded to frame. No exposed rivet heads. Rust-proofed steel pin with bronze bushing and contact washers providing steel - to - bronze contacts throughout.

SPECIFICATIONS FOR RESIDENCE CASEMENTS

GENERAL—All windows so indicated on the drawings shall be Truscon Residence Casements (**architect to specify type and design**) as manufactured by the Truscon Steel Company of Youngstown, Ohio.

MATERIAL—Members shall be hot rolled new billet steel. Frame and vent members shall be zee bars with integral weathering baffles and shall be not less than 1" in depth nor less than ⅛" in thickness. Before fabrication all sections shall be re-rolled cold to remove scale, to form shapes to exact scheduled size and to straighten them true to line.

CONSTRUCTION—Corners shall be mitred and electrically butt welded with all exposed surplus material at welds ground smooth. Muntins shall be of equal depth, mitred and rigidly interlocked at intersections with all surfaces flush and shall have ends riveted to vent and frame members. Ventilators shall contact frame with continuous two point flat contact not less than 3/16" in width. Continuous head drips shall be provided over each ventilator. All units shall be prepared for necessary standard hardware, screens, and shade brackets. Standard mullions shall be furnished where two or more units are used in the same opening.

Hinges shall be of extension design with leaves blanked from heavy hot rolled steel angles, pressure welded to vent and arc welded to frame. Hinges shall have steel pins with bronze bushings and bronze contact washers.

HARDWARE—(a) **Hardware for Roto Type Casements.** Hardware shall have bronze lacquer finish*, and shall control the vent independently of the screen. Each vent shall have a bronze locking handle and a worm drive operator with bronze tip. Locking handle shall engage with a concealed keeper attached to vent and shall have cam action. Operator guide shall be brass. Removable stool gauges shall be shipped attached to operator provisions to insure proper locating of stool and so avoid interference with hardware.

(b) **Alternate Hardware for Roto Type Casements**—Sill Control Type. (In place of locking handles specified under (a) above, substitute the following.) A sill control locking device shall be furnished for each vent or for each pair of adjacent vents in the same unit. The finger grip located at the sill shall actuate a concealed vertically sliding rod designed to engage with keepers attached at approximately mid-height of vent, locking the vent securely closed.

(c) **Hardware for Simplex Type Casements**—Each vent shall have a bronze lacquer finish* locking handle with brass strike designed to lock vent weathertight with a cam action closing movement.

BONDERIZING AND SHOP PAINTING—After fabrication, all casements shall be Bonderized and primed with one dip coat of dark gray paint, oven-baked for not less than 60 minutes at a temperature of 300 degrees Fahr.

SCREENS—Screens shall fit closely and neatly all around and shall be easily removable. Screen frames shall be of formed steel and shall be given one shop coat of gray Bakelite enamel, oven-baked. Screen cloth shall be of No. 16 mesh commercial bronze (.0113" diameter) wire.

(a) Screens for Roto Casements—A separate fixed type screen shall be furnished for each vent.

(b) Screens for Roto Casements with Sill Control Locking Device—One fixed type screen shall be furnished for each vent or for each pair of adjacent vents in the same unit.

(c) Screens for Simplex Casements—One wicket type screen shall be furnished for each vent or for each pair of adjacent vents in the same unit. Wicket shall slide horizontally and provide access to locking handle through an aperture not less than 7¼" in clear width and 12" in clear height. Design of wicket shall permit closing with vent in closed and locked position. Wicket framing bars shall line up with muntin bars of FM design casements.

ERECTION—Casements shall be set plumb and true; mastic cement (furnished by manufacturer) shall be used in setting and bedding frames; ventilators shall be adjusted before glazing, and hardware attached after glazing. Manufacturer's instructions shall be carefully followed in installing, adjusting and attaching hardware. (When so desired, the Erection Division of the Truscon Steel Company will contract for the erecting and adjusting of casements in prepared openings.)

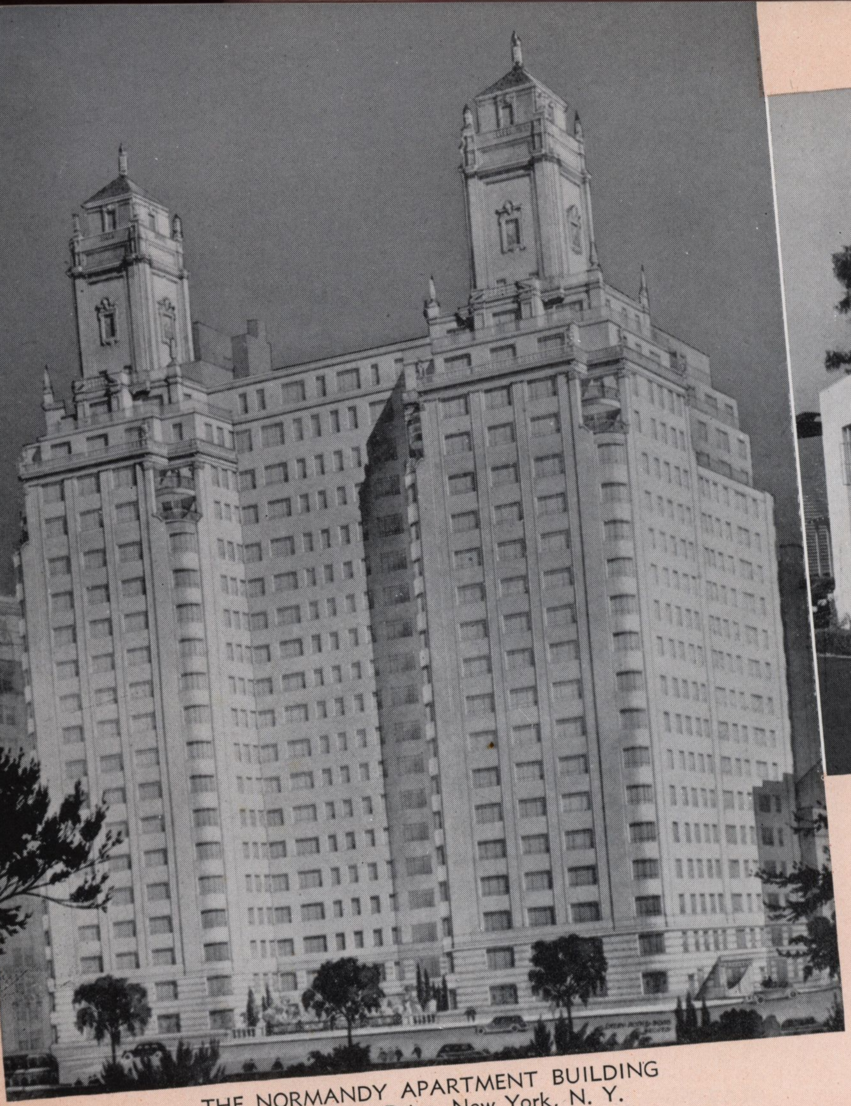
GLAZING—**(To be done by glazing contractor.)** All casements shall be glazed on the outside. Glass shall be bedded in steel casement putty, held in place with copper clad spring wire glazing clips and face puttied to a neat, trim line.

FIELD PAINTING—**(To be done by painting contractor.)** All casements shall be given one coat of field paint after installation but before glazing. Finish coats shall be applied approximately two weeks after glazing when putty will have properly set. Paint which may seep into operator guide shall be immediately removed.

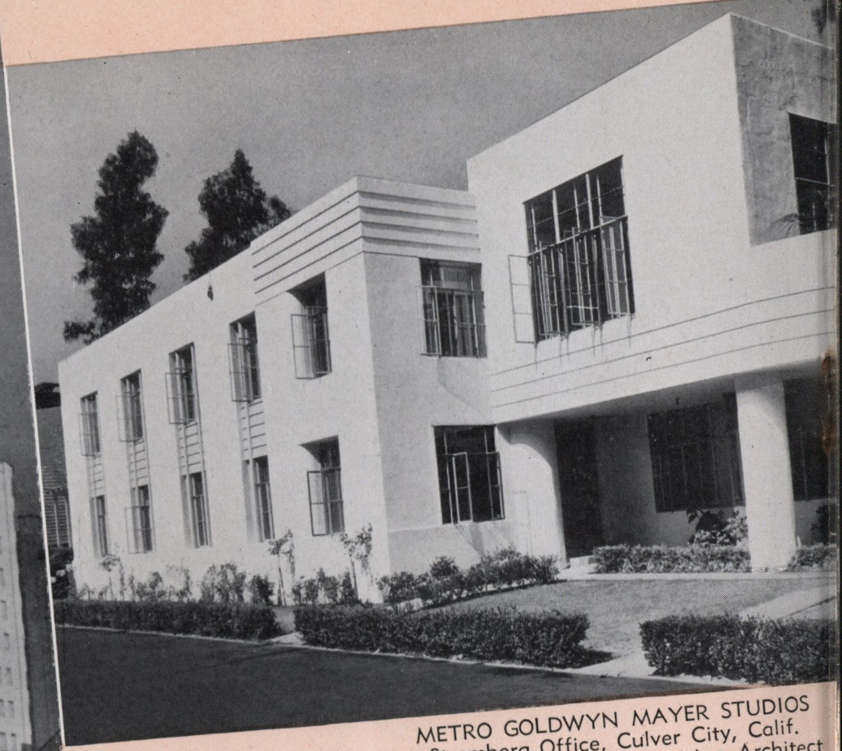
CASEMENTS WITH UNDERWRITERS' LABEL OF APPROVAL (National Board of Fire Underwriters.) The same specifications outlined above apply to casements with Underwriters' Label of approval, but glass size must not exceed 125 sq. inches in exposed area. (All standard FM designs are within this limit.)

* **OPTIONAL.** Solid bronze or special finish hardware, continuous fins, wood surrounds, Tempryte windows or special screen cloth will be furnished when specified and at extra cost.

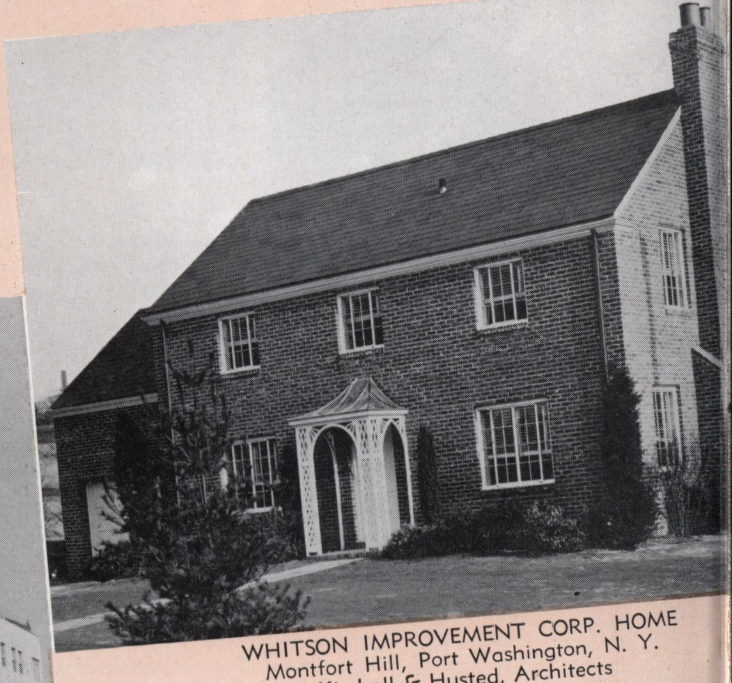
NOTES. Glazing clips, mastic cement, wood screws, and strap anchors required to install casements in accordance with Truscon's instructions are included at no extra cost.



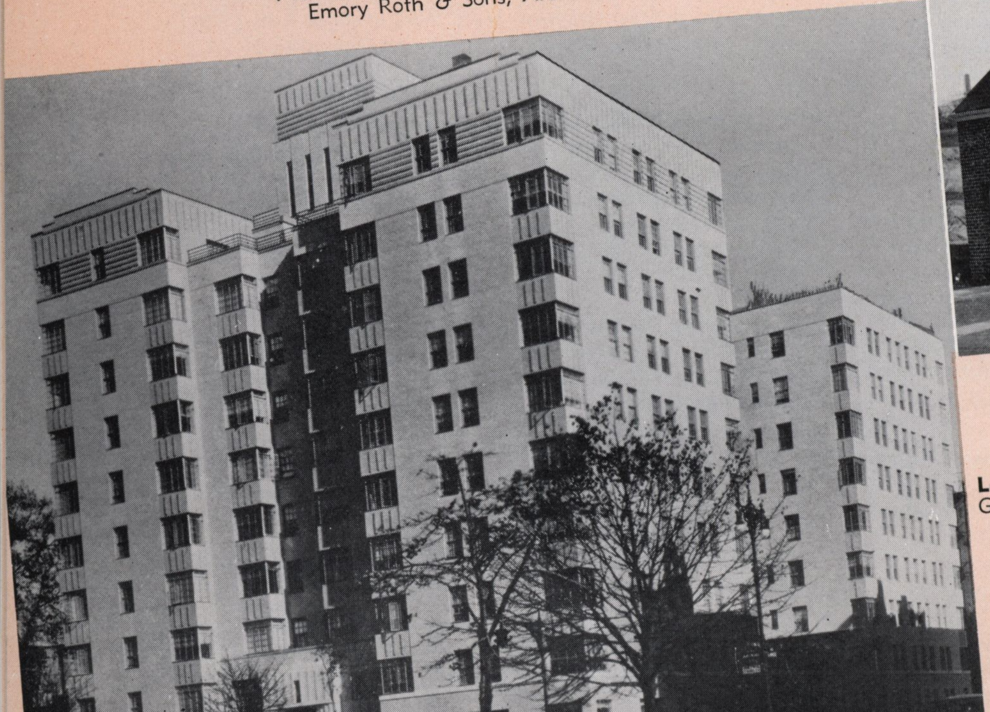
THE NORMANDY APARTMENT BUILDING
140 Riverside Drive, New York, N. Y.
Emory Roth & Sons, Architects

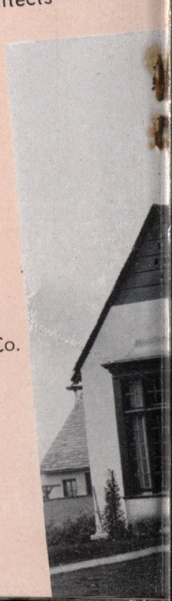


METRO GOLDWYN MAYER STUDIOS
Stromberg Office, Culver City, Calif.
Arthur Macarthur, Supervising Architect



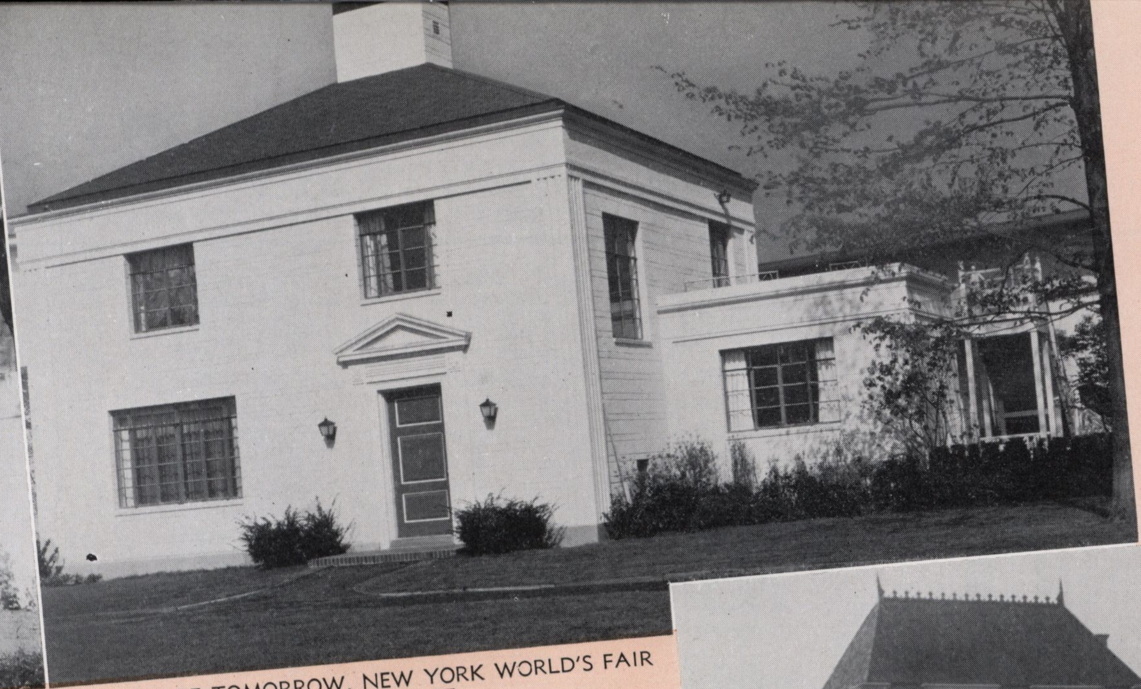
WHITSON IMPROVEMENT CORP. HOME
Montfort Hill, Port Washington, N. Y.
Kimball & Husted, Architects



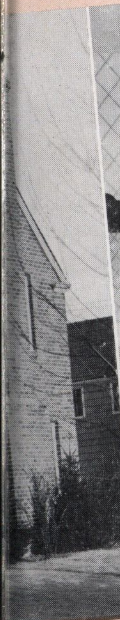


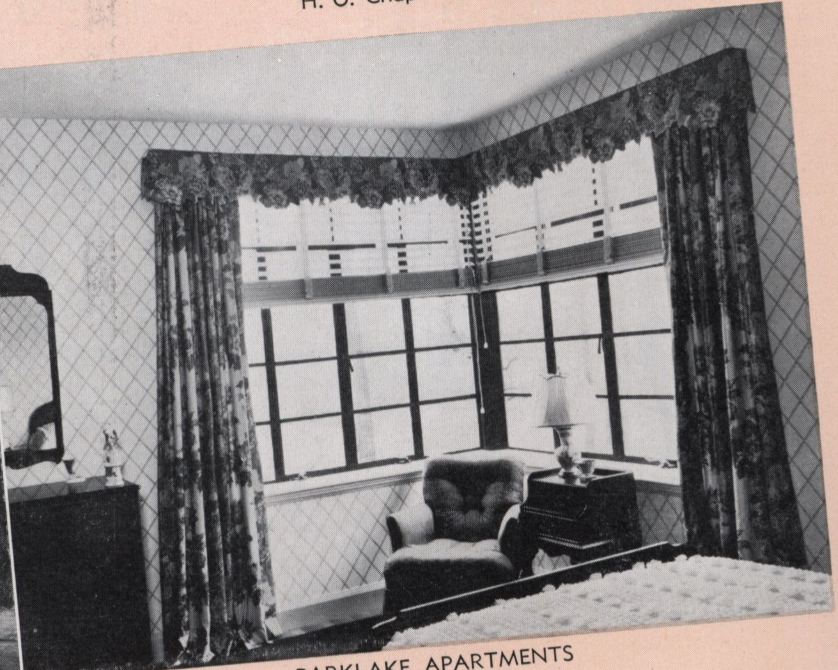
Left:
GRAND CONCOURSE APARTMENT BUILDING
New York, N. Y.
Sugerman & Berger, Architects

Right:
M. R. DAVIS RESIDENCE
Los Angeles, Calif.
Westwood Mortgage & Investment Co.
Architects

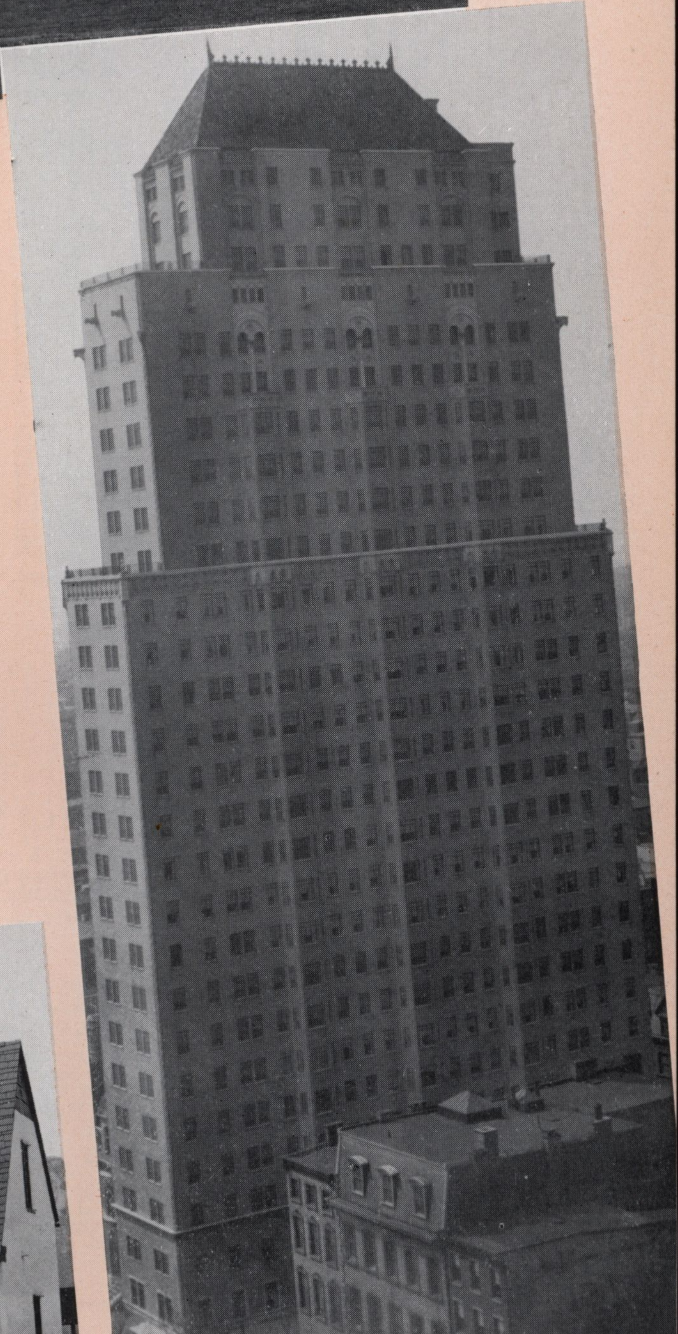


TOWN OF TOMORROW, NEW YORK WORLD'S FAIR
HOUSE NO. 17
H. O. Chapman, Jr., & H. W. Beder, Architects

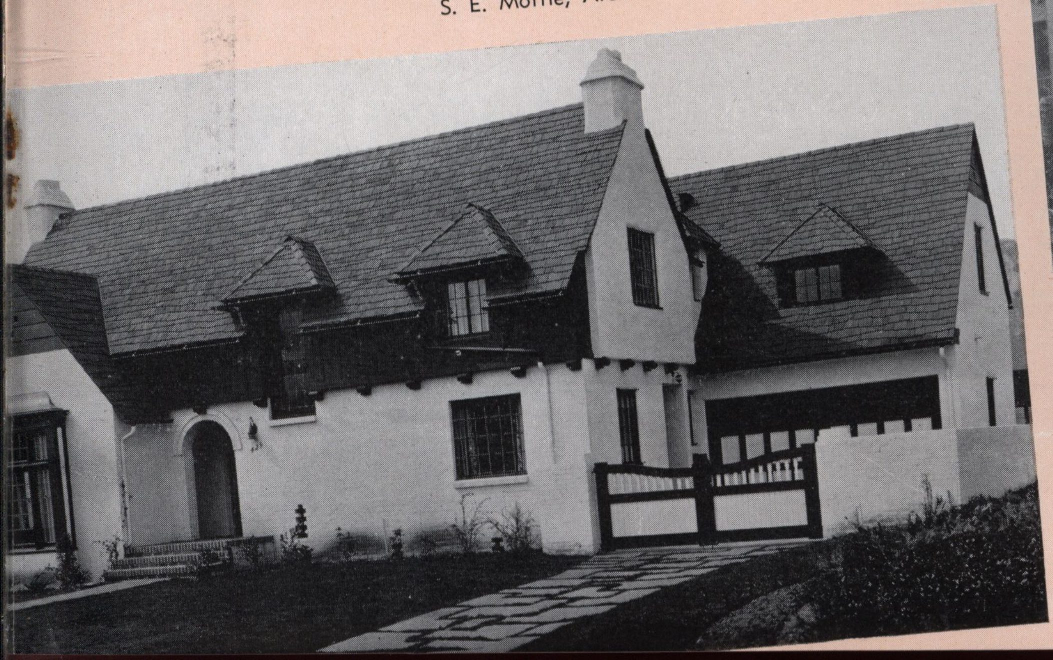




PARKLAKE APARTMENTS
Brighton, Mass.
S. E. Moffie, Architect

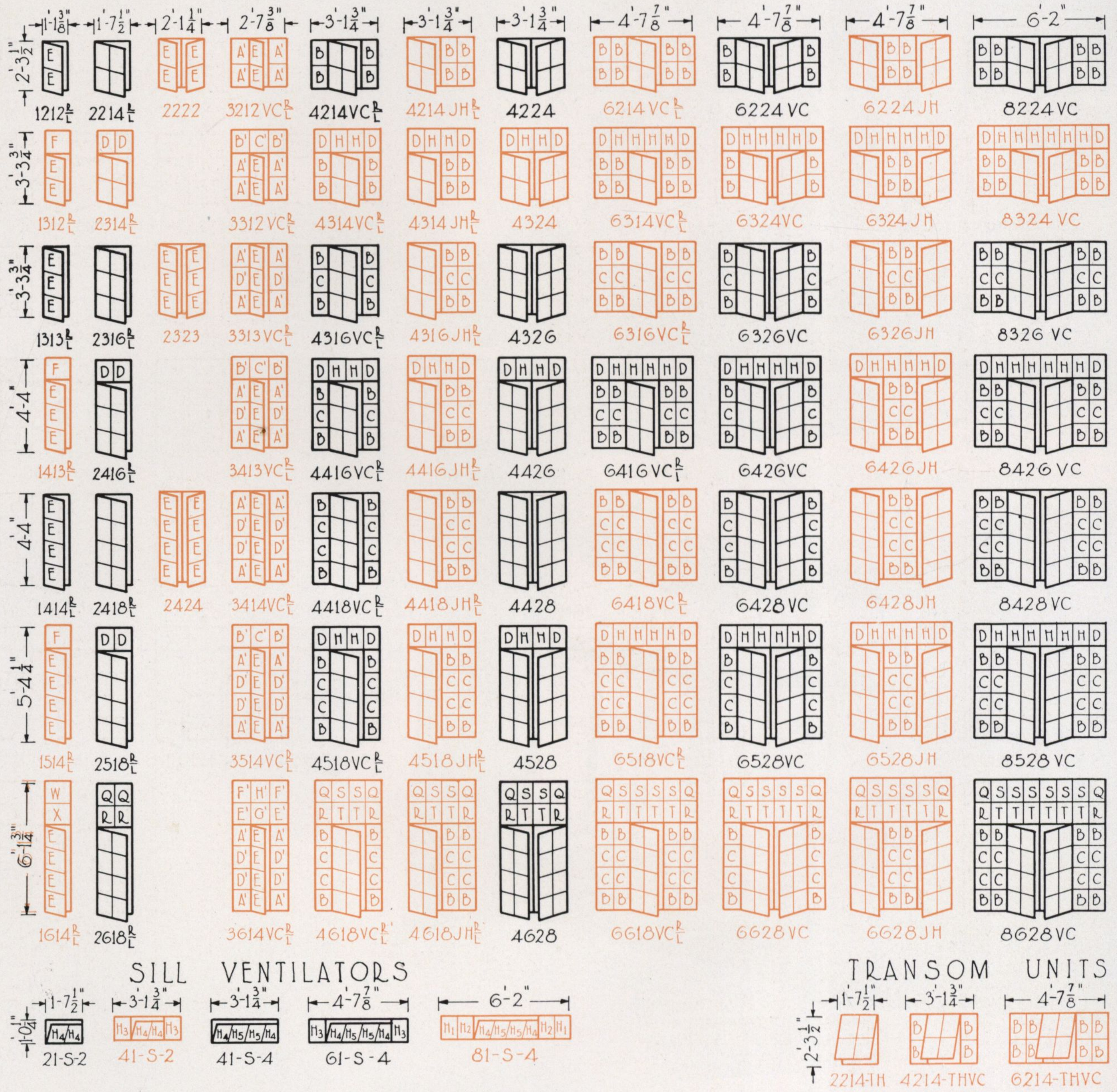


CHATEAU CRILLON APARTMENT HOTEL
222 S. 19th Street, Philadelphia, Pa.
Horace Trumbauer, Architect



FM DESIGNS—ROTO AND SIMPLEX

STOCK UNITS PRINTED IN BLACK



NOTES

All windows are viewed from the outside. Dimensions shown are masonry opening sizes. Actual window sizes are ¼" smaller. See typical installation details.
Mullions: See mullion details.
Handing of casements is determined by location of hinges as viewed from the outside. When ordering single ventilator casements always specify whether right hand or left hand is required.

SYMBOLS

VC = Ventilators located in center of window.
JH = Ventilators located at jambs of window.
R/L = Single ventilator casements which are made either hinged at right hand or hinged at left hand. (Left hand are shown above.)
TH = Ventilator hinged at top.

GLASS SIZES

GLASS SIZES (For this page only)
All lights not lettered are size "A"

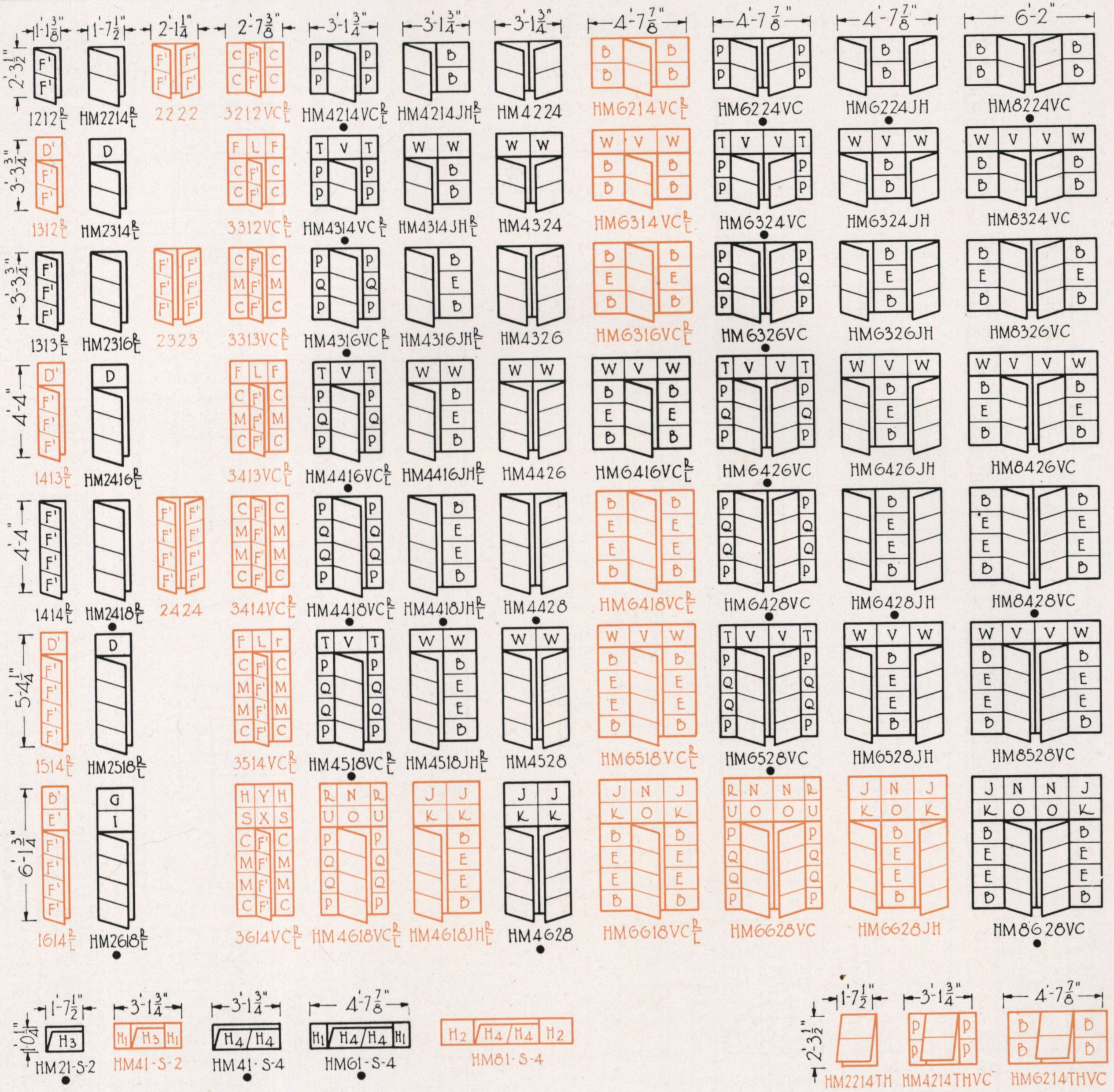
A — 8" x 12"
B — 8⅝" x 12⅝"
C — 8⅝" x 12"
D — 8⅝" x 11¾"
E — 10" x 12"
F — 11¼" x 11¾"
H — 8¾" x 11¾"
Q — 8⅝" x 10⅜"
R — 8⅝" x 10⅝"
S — 8¾" x 10⅜"
T — 8¾" x 10⅝"
W — 11¼" x 10⅜"
X — 11¼" x 10⅝"

H_1 — 8⅝" x 10⅞"
H_2 — 8⅞" x 10⅞"
H_3 — 8¾" x 10⅞"
H_4 — 8" x 9⅝"
H_5 — 8¾" x 9⅝"
A^1 — 8¼" x 12⅝"
B^1 — 8½" x 11¾"
C^1 — 11¾" x 11¾"
D^1 — 8¼" x 12"
E^1 — 8½" x 10⅝"
F^1 — 8½" x 10⅜"
G^1 — 11¾" x 10⅝"
H^1 — 11¾" x 10⅜"

HM DESIGNS—ROTO AND SIMPLEX

STOCK UNITS PRINTED IN BLACK

(UNITS WITH DOT UNDER WINDOW NUMBER ARE STOCKED IN ROTO TYPE ONLY)



NOTES

All windows are viewed from the outside. Dimensions shown are masonry opening sizes. Actual window sizes are ¼" smaller. See typical installation details.

Mullions: See mullion details.

Handing of casements is determined by location of hinges as viewed from the outside. When ordering single ventilator casements always specify whether right hand or left hand is required.

SYMBOLS

VC = Vents located in center of window.
JH = Vents located at jambs of window.
R/L = Single ventilator casements which are made either hinged at right hand or hinged at left hand.
(Left hand are shown above.)
TH = Ventilator hinged at top.

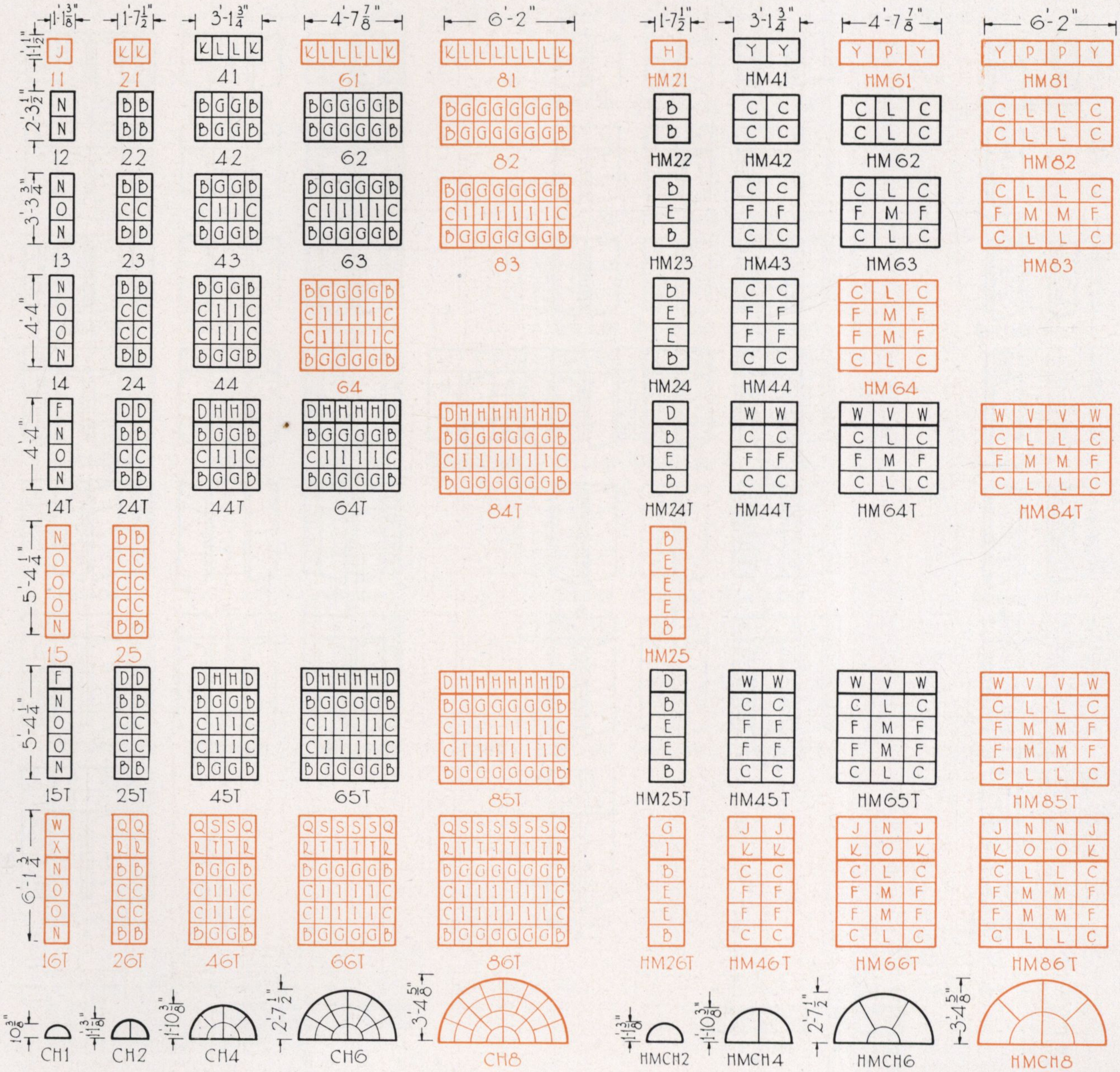
GLASS SIZES

GLASS SIZES (For this page only)
All lights not lettered are size "A"

A — 16" x 12"
B — 17½" x 12⅝"
C — 8¼" x 12⅝"
D — 17½" x 11¾"
E — 17½" x 12"
F — 8½" x 11¾"
G — 17½" x 10⅜"
H — 8½" x 10⅜"
I — 17½" x 10⅝"
J — 17⅝" x 10⅜"
K — 17⅝" x 10⅝"
L — 11¾" x 11¾"
M — 8¼" x 12"
N — 17⅞" x 10⅜"
O — 17⅞" x 10⅝"
P — 8⅝" x 12⅝"
Q — 8⅝" x 12"
R — 8⅝" x 10⅜"
S — 8½" x 10⅝"
T — 8⅝" x 11¾"
U — 8⅝" x 10⅝"
V — 17⅞" x 11¾"
W — 17⅝" x 11¾"
X — 11¾" x 10⅝"
Y — 11¾" x 10⅜"
B^1 — 11¼" x 10⅜"
D^1 — 11¼" x 11¾"
E^1 — 11¼" x 10⅝"
F^1 — 10" x 12"
H_1 — 8¾" x 10⅞"
H_2 — 17½" x 10⅞"
H_3 — 16" x 9⅝"
H_4 — 16¾" x 9⅝"

FM AND HM DESIGNS—FIXED UNITS

STOCK UNITS PRINTED IN BLACK



FM DESIGNS

GLASS SIZES
Full Muntin Only

B — 8⅝" x 12⅝"
C — 8⅝" x 12 "
D — 8⅝" x 11¾"
F — 11¼" x 11¾"
G — 8¾" x 12⅝"
H — 8¾" x 11¾"
I — 8¾" x 12 "
J — 11¼" x 11½"
K — 8⅝" x 11½"

L — 8¾" x 11½"
N — 11¼" x 12⅝"
O — 11¼" x 12 "
Q — 8⅝" x 10⅜"
R — 8⅝" x 10⅝"
S — 8¾" x 10⅜"
T — 8¾" x 10⅝"
W — 11¼" x 10⅜"
X — 11¼" x 10⅝"

HM DESIGNS

GLASS SIZES
Horizontal Muntin Only

B — 17½" x 12⅝"
C — 17⅝" x 12⅝"
D — 17½" x 11¾"
F — 17⅝" x 12 "
G — 17½" x 10⅜"
H — 17½" x 11½"
I — 17½" x 10⅝"
J — 17⅝" x 10⅜"
K — 17⅝" x 10⅝"

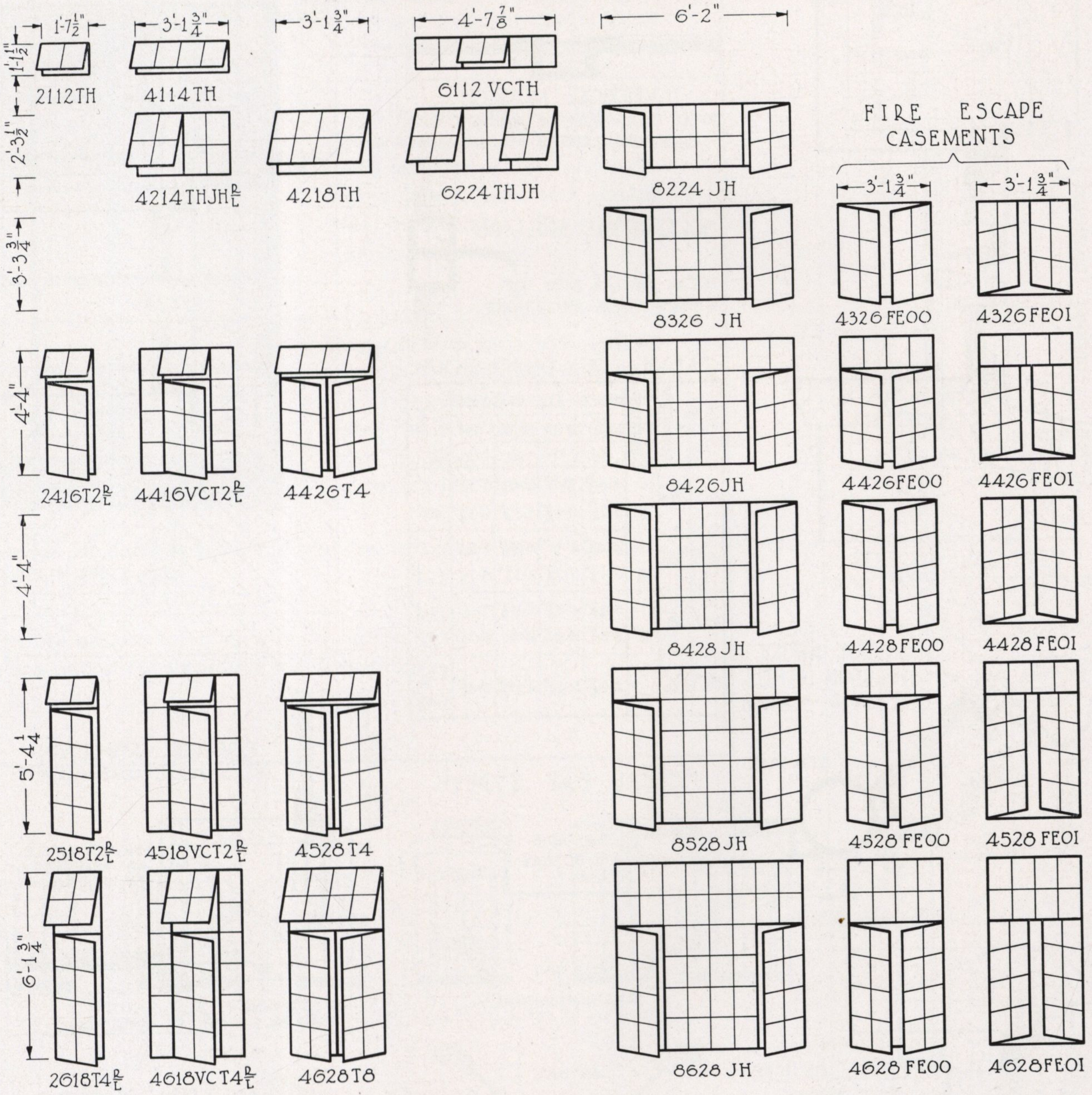
L — 17⅞" x 12⅝"
M — 17⅞" x 12 "
N — 17⅞" x 10⅜"
O — 17⅞" x 10⅝"
P — 17⅞" x 11½"
V — 17⅞" x 11¾"
W — 17⅝" x 11¾"
Y — 17⅝" x 11½"

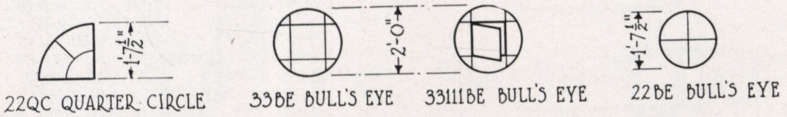
NOTES:
Dimensions shown are masonry opening dimensions. Actual window sizes are ¼" smaller. See typical installation details.
Mullions: See mullion details.

LISTED SPECIALS—ROTO AND SIMPLEX

MADE ON ORDER ONLY

LISTED SPECIALS



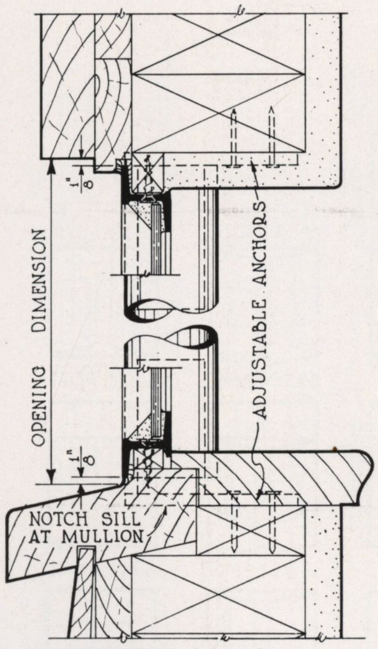


ALL LISTED SPECIAL UNITS MAY ALSO BE FURNISHED IN HORIZONTAL MUNTIN DESIGN. ALL VENTILATED UNITS EXCEPT 33111 AND FIRE ESCAPE UNITS MAY BE FURNISHED WITH EITHER ROTO OR SIMPLEX HARDWARE. UNIT 33111 ALWAYS FURNISHED WITH SIMPLEX HARDWARE.

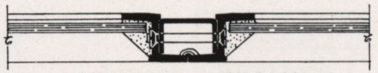
FIRE ESCAPE UNITS, HAVING NO FIXED MEETING RAILS, PROVIDE CLEAR OPENINGS. FURNISHED WITH EITHER CREMONE BOLT HARDWARE OR WITH TOP AND BOTTOM BOLTS AS SPECIFIED. CONSULT CONTROLLING BUILDING CODE REGULATIONS BEFORE SPECIFYING.

MULLIONS

(Scale 3" = 1'-0")



VERTICAL SECTION

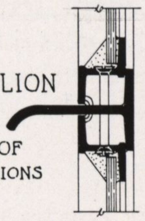


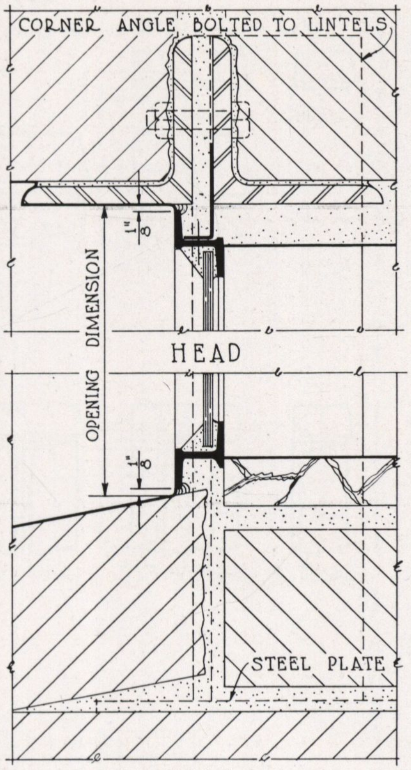
VERTICAL MULLION

TOTAL OP'G. = SUM OF WINDOW OP'G. DIMENSIONS, LESS 1/4" PER MULLION

HORIZONTAL MULLION

TOTAL OP'G. = SUM OF WINDOW OP'G. DIMENSIONS

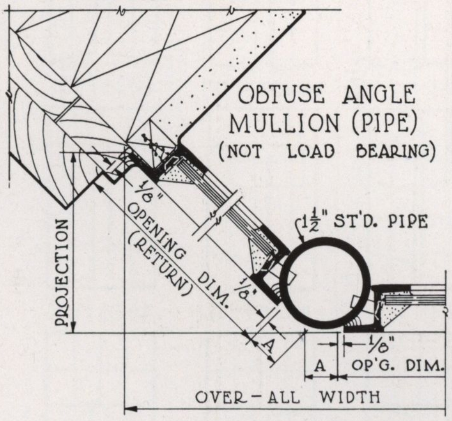




SILL

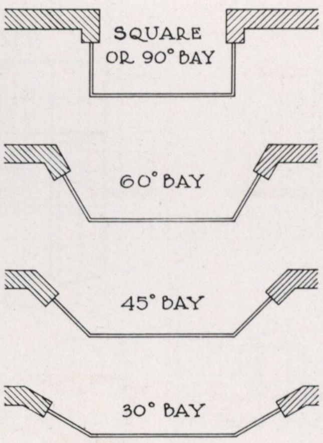
TABLE OF DIMENSIONS

ANGLE OF BAY	"A" DIMENSION	LIGHTS IN RETURN	OVER-ALL WIDTHS — LIGHTS IN FRONT SEC. 3	4	6	8	PROJEC-TION
30°	9/16"	1	4'-8 5/8"	5'-3"	6'-9 1/8"	8'-3 1/4"	7"
		2	5'-7 1/4"	6'-1 5/8"	7'-7 3/4"	9'-1 7/8"	10"
45°	11/16"	1	4'-4 5/8"	4'-11"	6'-5 1/8"	7'-11 1/4"	10"
		2	5'-1 1/4"	5'-7 5/8"	7'-1 3/4"	8'-7 7/8"	1'-2 1/4"
60°	7/8"	1	3'-11 3/8"	4'-5 3/4"	5'-11 7/8"	7'-6"	1'-0 3/8"
		2	4'-5 1/2"	4'-11 7/8"	6'-6"	8'-0 1/8"	1'-5 5/8"
90°	1 1/4"	1	2'-9 7/8"	3'-4 1/4"	4'-10 3/8"	6'-4 1/2"	1'-2 5/8"
		2					1'-8 3/4"

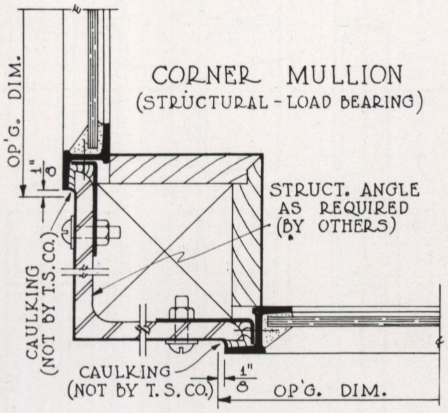


OBTUSE ANGLE MULLION (PIPE)
(NOT LOAD BEARING)

TYPICAL BAY TYPES

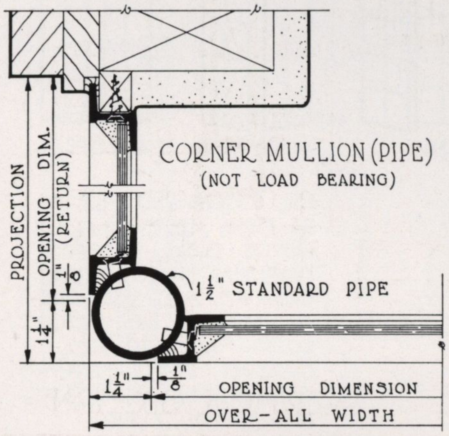


SEE TABLE ABOVE FOR INSTALLATION DIMENSIONS



OP'G. DIM.
1/8"
STRUCT. ANGLE AS REQUIRED (BY OTHERS)
CAULKING (NOT BY T.S.CO.)
CAULKING (NOT BY T. S. CO.)
1/8"
OP'G. DIM.

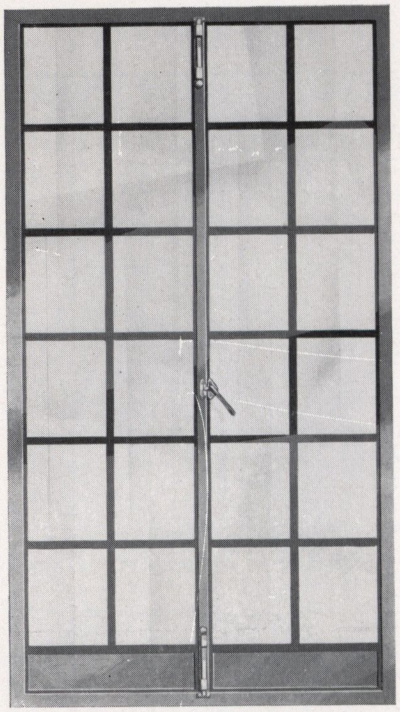
CORNER MULLION
(STRUCTURAL - LOAD BEARING)



CORNER MULLION (PIPE)
(NOT LOAD BEARING)

NOTES:
STANDARD PIPE CORNER MULLIONS ONLY ARE FURNISHED BY TRUSCON STEEL COMPANY. THESE ARE NON-LOAD BEARING. LOAD BEARING MULLIONS ARE TO BE FURNISHED BY OTHERS. THE ABOVE DETAIL IS SUGGESTED AS AN ECONOMICAL AND PRACTICAL DESIGN FOR SUCH MULLIONS.

RESIDENCE CASEMENT DOORS



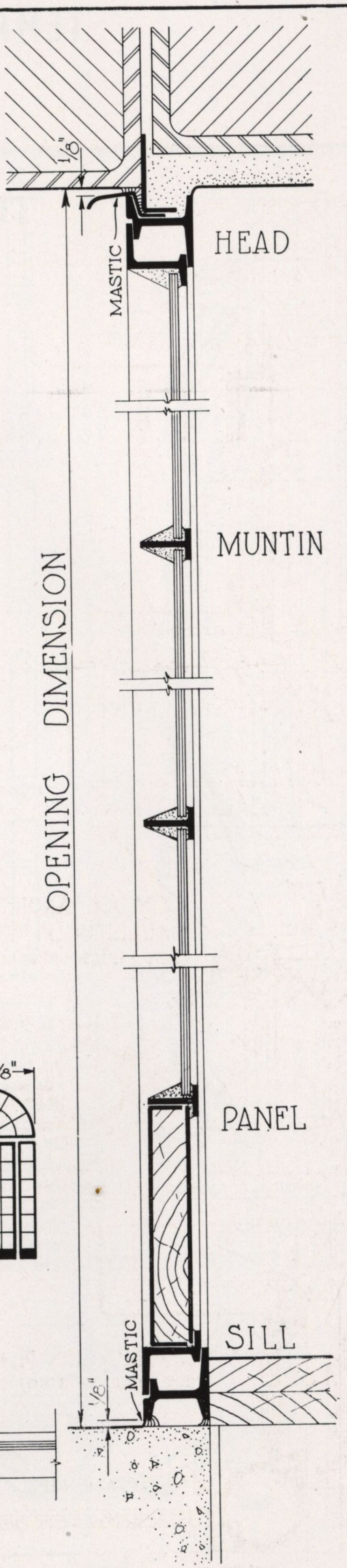
The Truscon Residence Casement Door, with sidelight and transom units offers a choice of pleasing combinations for court and solarium openings, or for interior French doors.

Truscon Residence Casement doors are made of extra heavy steel sections. Doors and sidelights have insulated double steel kick plates. Door leaves open outward only.

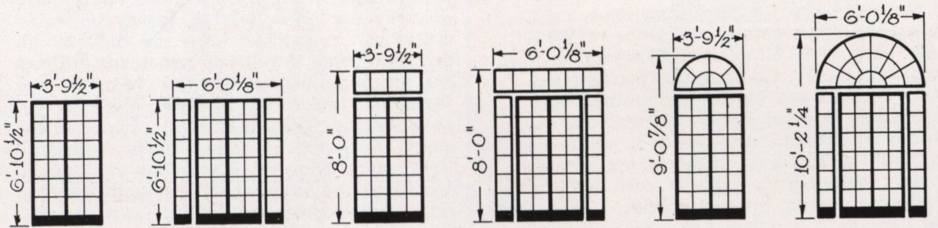
Hardware consists of three close-up type friction hinges for each leaf, top and bottom bolts for right hand leaf (viewed from the outside), and bronze cam locking handle and pull knob for left hand leaf.

Thresholds of extruded bronze will be furnished when so specified and at extra cost.

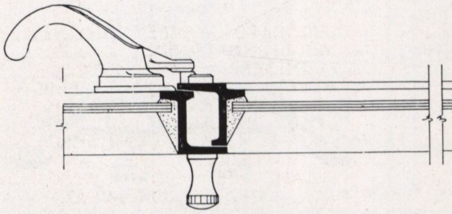
Dimensions shown for door and for combinations are opening dimensions and allow clearance for installing.



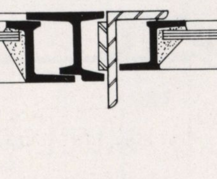
VERTICAL SECTION



STANDARD DOOR & COMBINATIONS

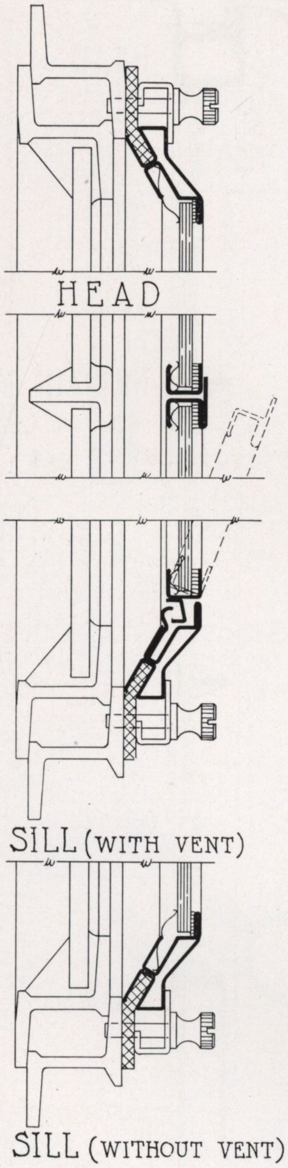


DETAIL AT MEETING RAIL SHOWING LOCKING HANDLE

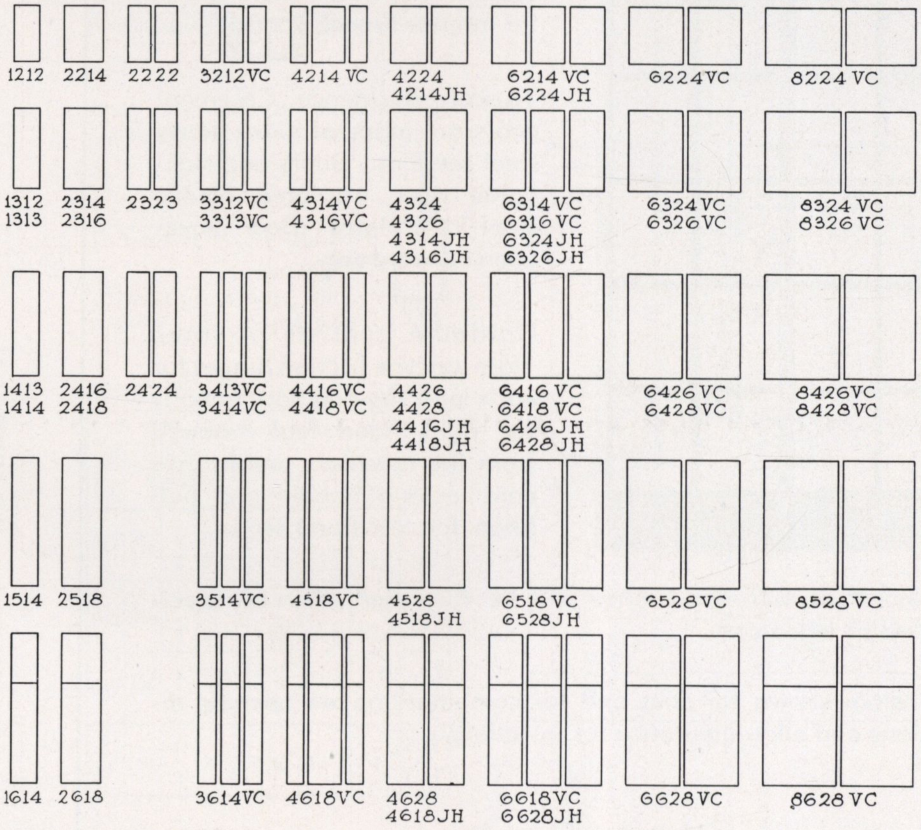


MULLION

TEMPRYTE INSULATING WINDOWS

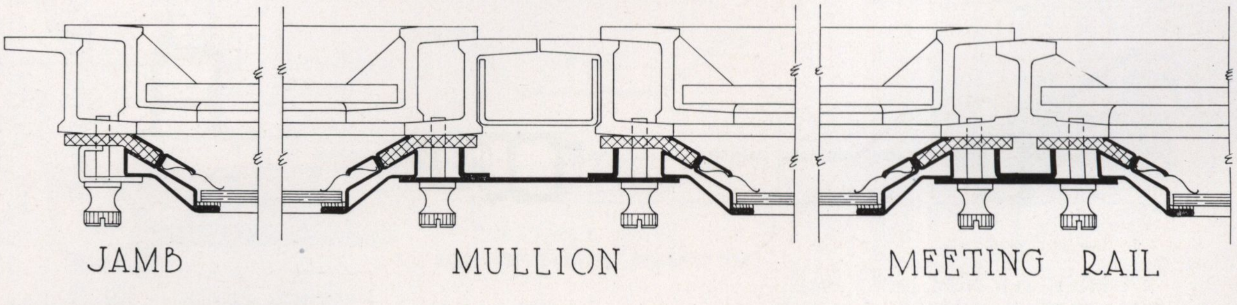


TEMPRYTE INSULATING WINDOW PANEL LAYOUT



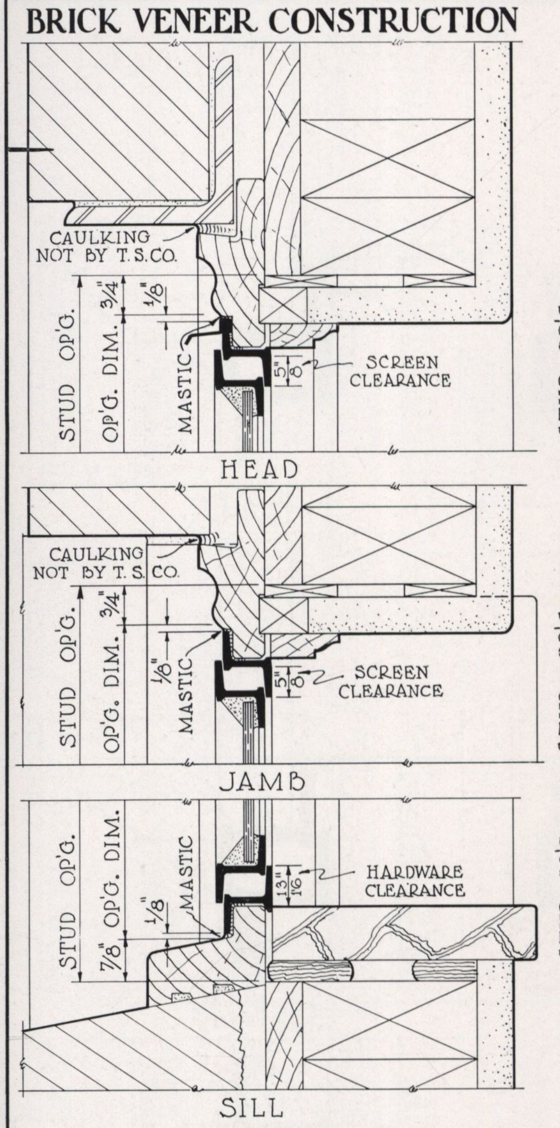
NOTES

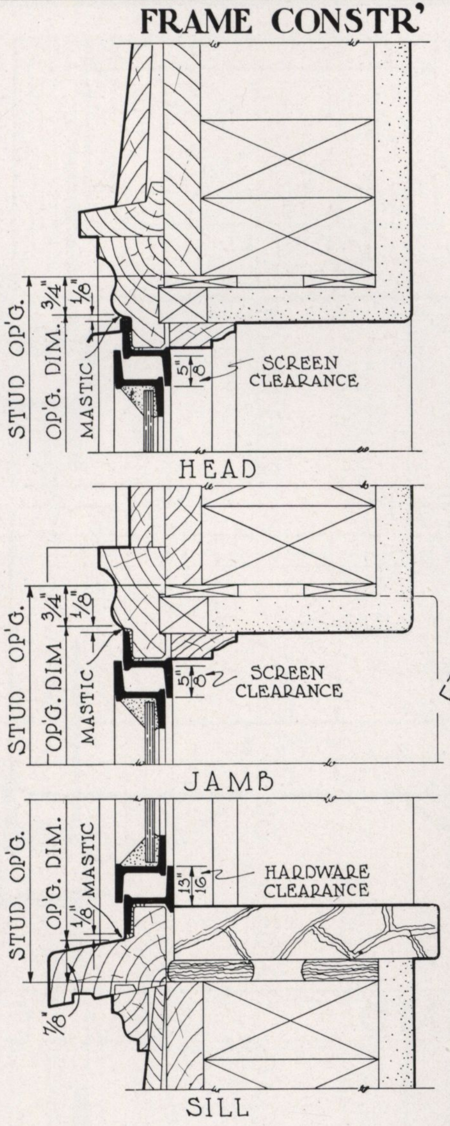
Tempryte Insulating Window details shown on this page are for Roto Casements only. For construction details of Tempryte Windows used with Simplex Casements write Truscon Steel Company, Youngstown, Ohio. Frames are electro-galvanized steel with baked enamel finish; corners are internally reinforced and welded; weathering seal is resilient rubber composition; glass is held tightly against cork bed by removable spring bronze splines. Tempryte Insulating windows are factory glazed with double strength clear glass. Casement windows are prepared for Tempryte Insulating windows when both are ordered at the same time, otherwise necessary drilling and tapping must be done in field by others. Tempryte Insulating windows are also available for fixed and circle head casements and for sill vent units. Integral Ventilators allowing controlled ventilation are furnished when specified, and at extra cost. We recommend that at least one Integral Ventilator be specified for each room.

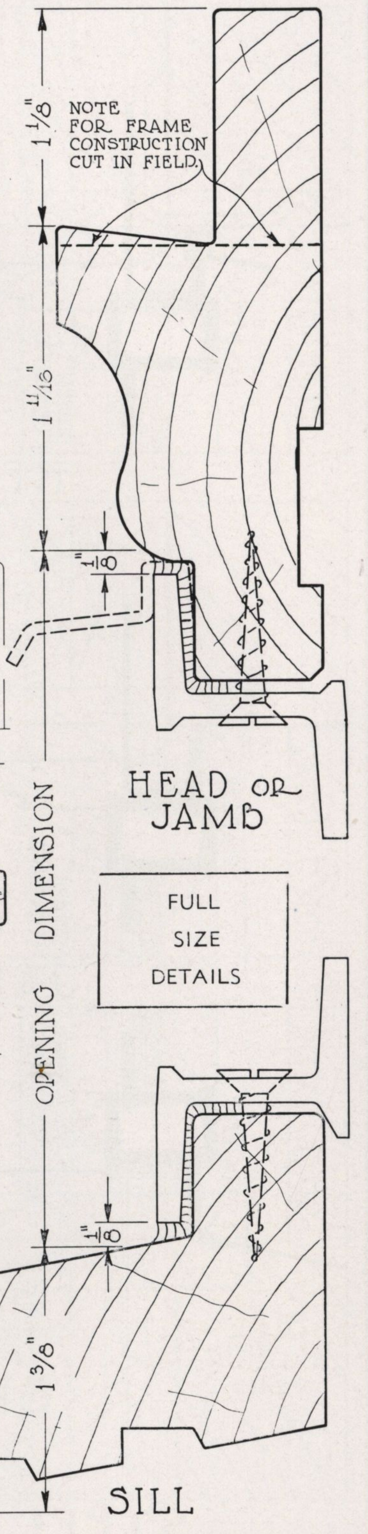


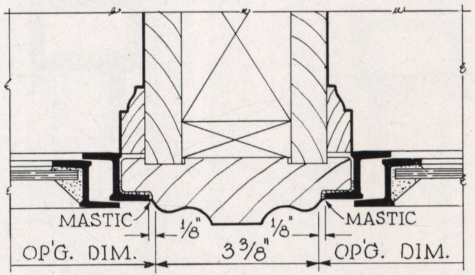
WOOD SURROUNDS

(Scale 3″ = 1′-0″)


BRICK VENEER CONSTRUCTION


FRAME CONSTR'

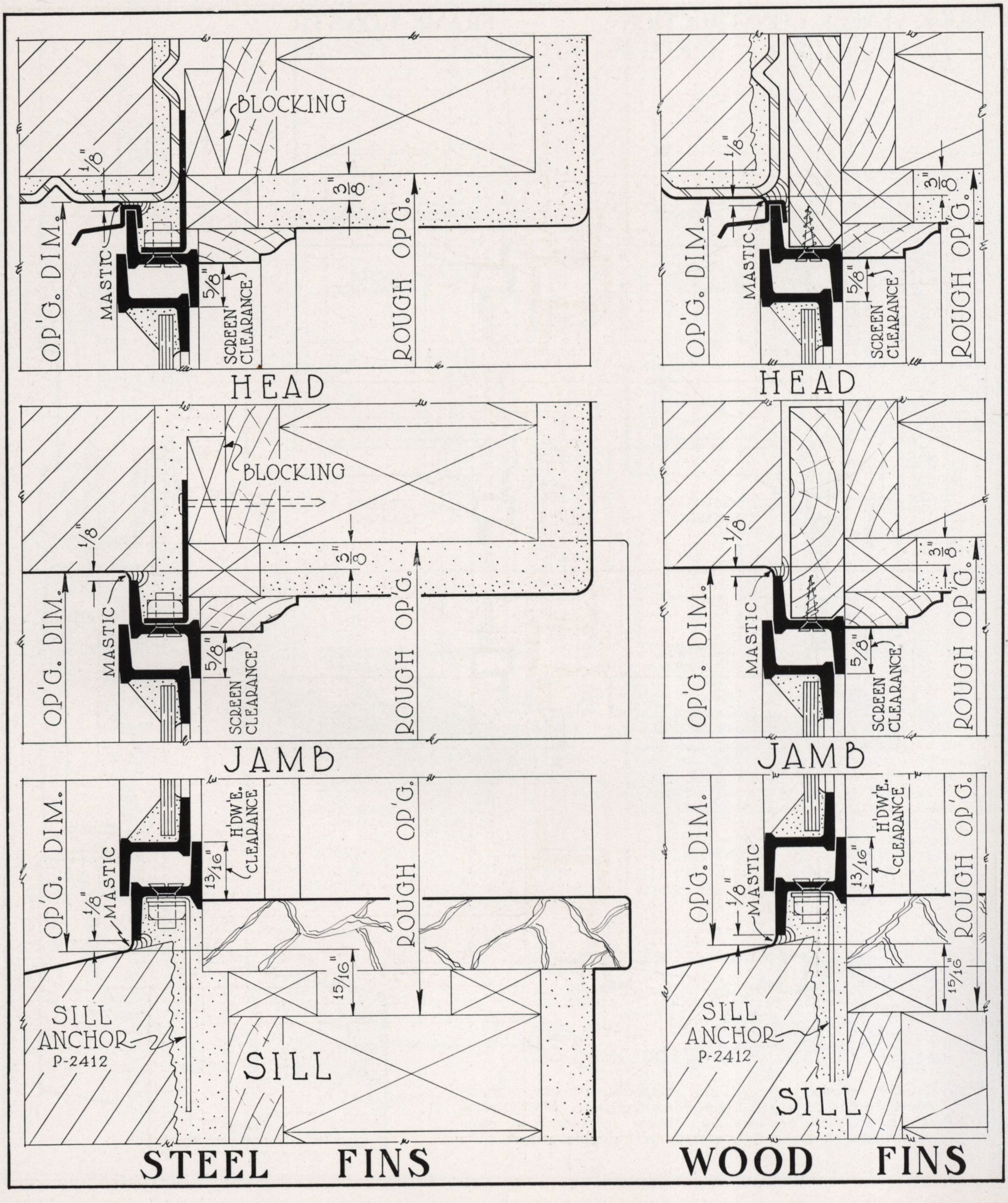



VERTICAL & HORIZONTAL MULLIONS

Truscon redwood surrounds are shipped cut-to-size, with all corners coped or mitred, ready for attachment. Mastic, wood screws, and nails are included. (Note: Installation in frame construction requires field cutting as indicated above).

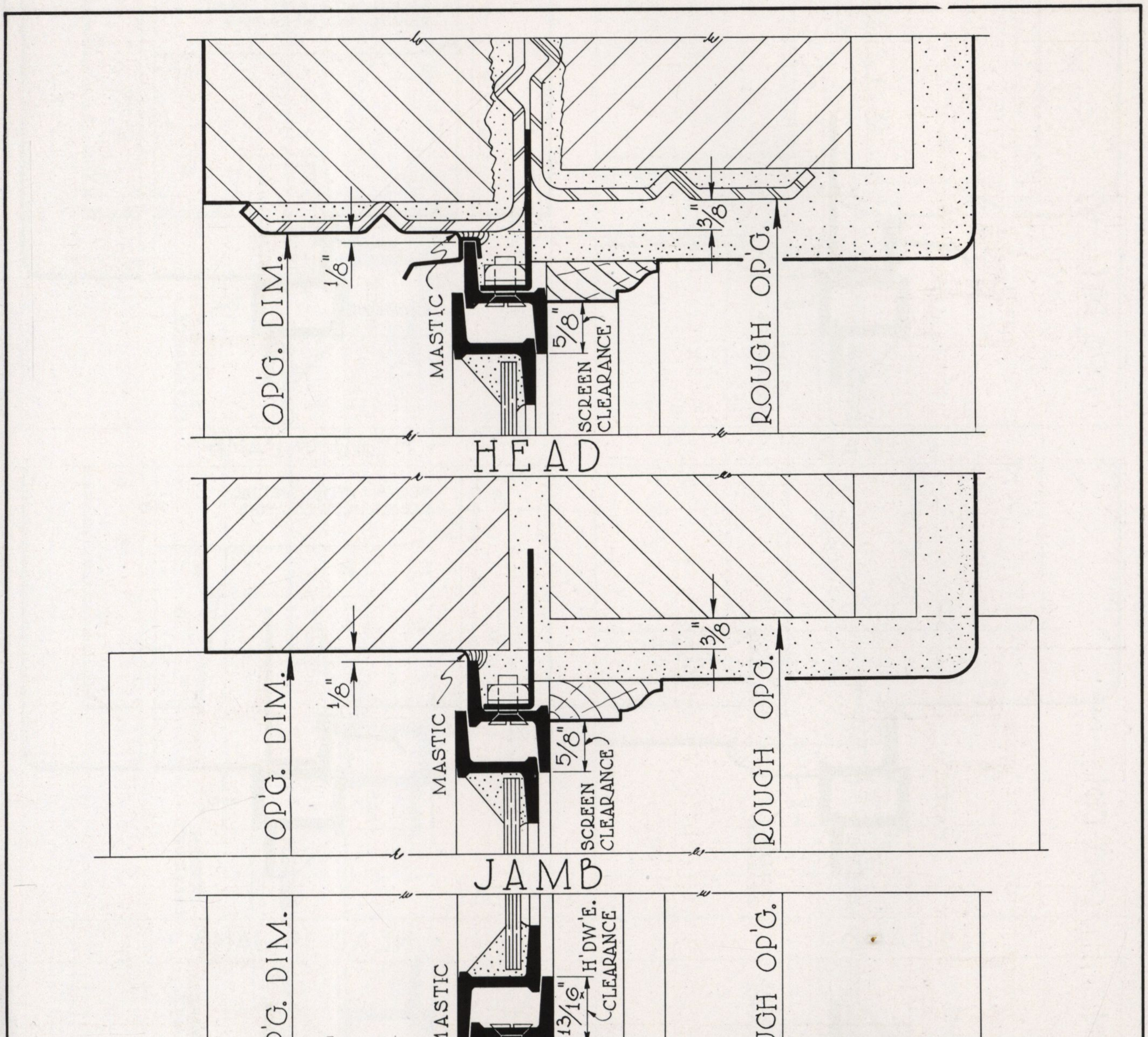
BRICK VENEER

(Scale 6" = 1'-0")



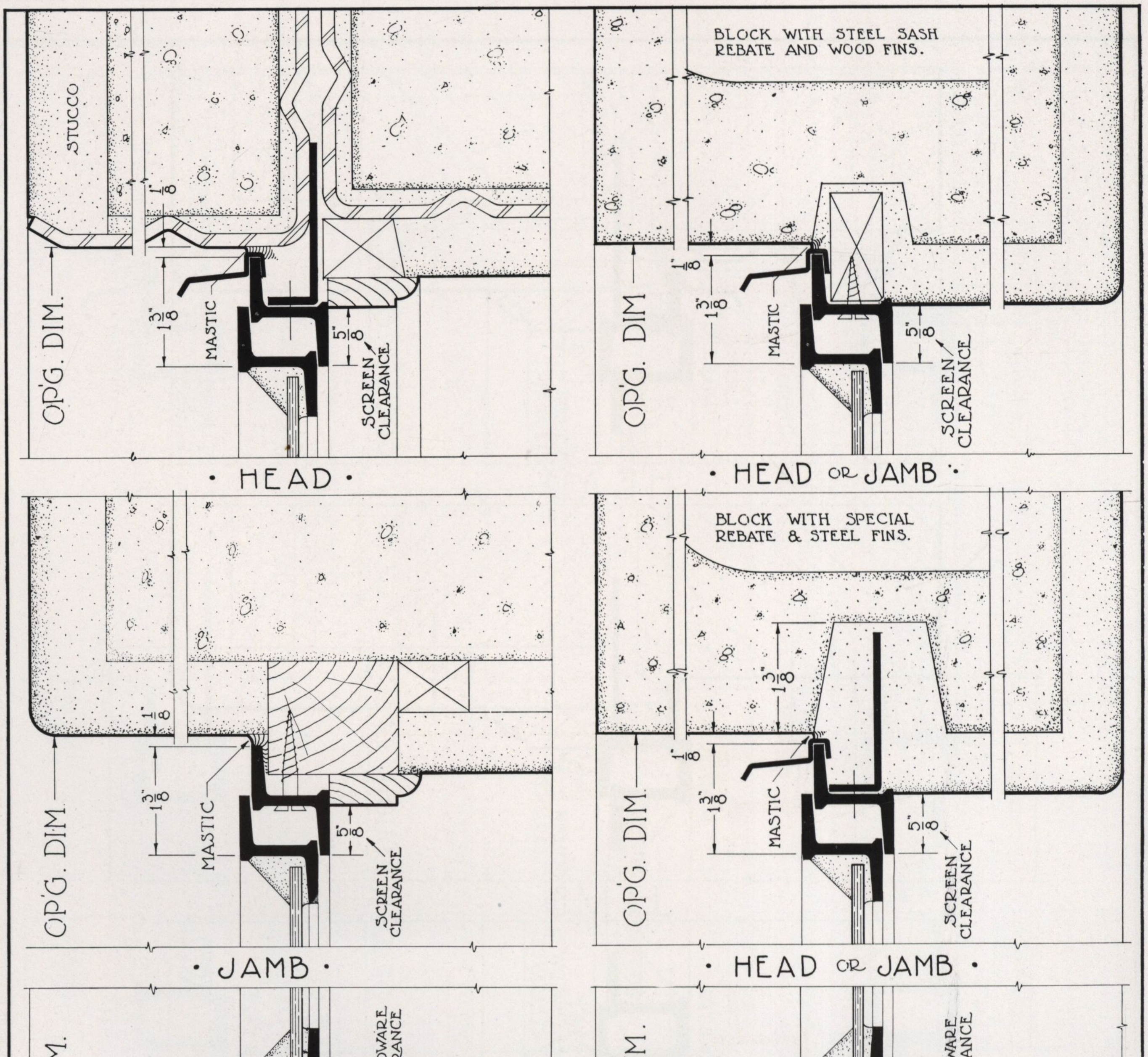
SOLID MASONRY

(Scale 6" = 1'-0")



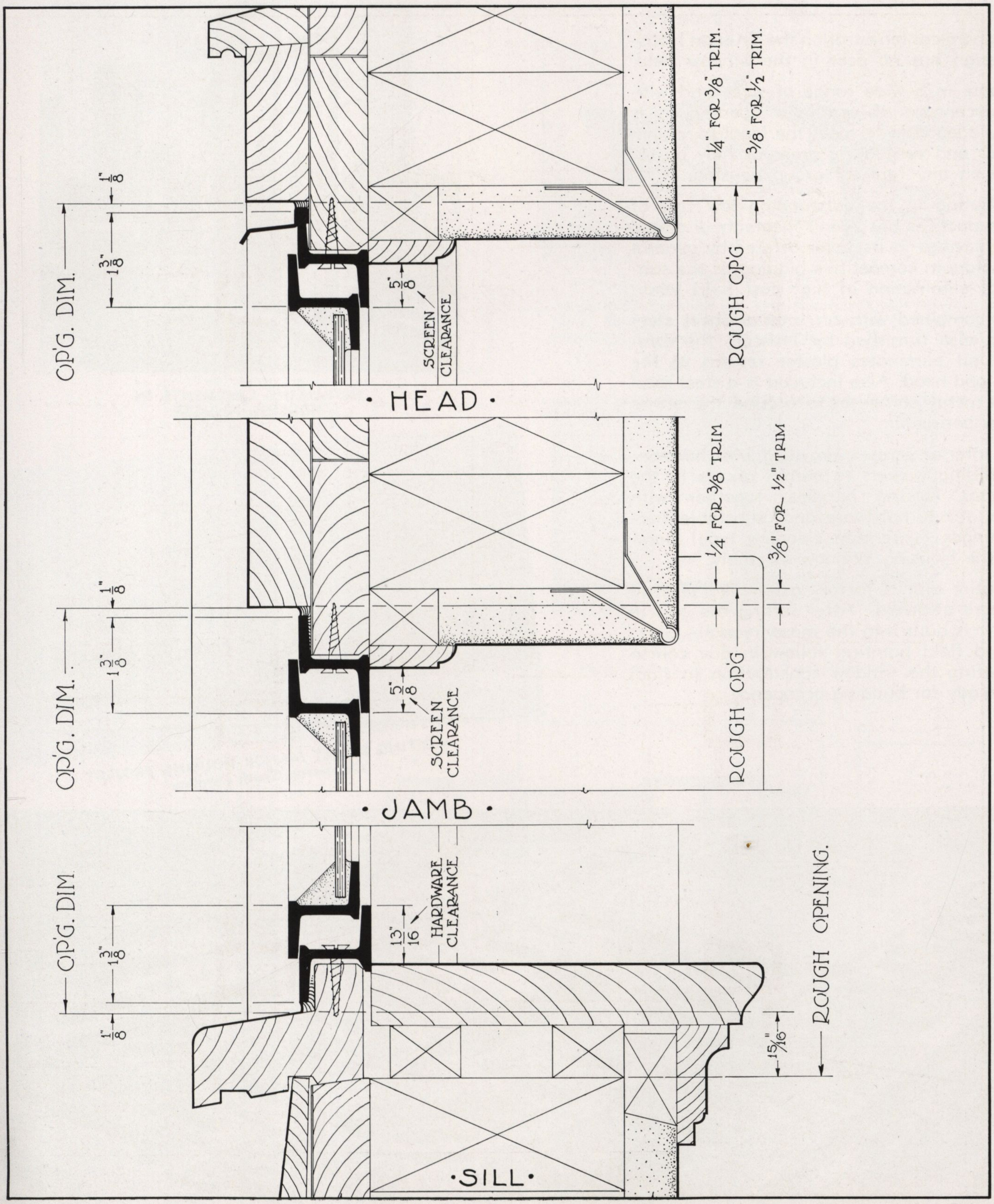
CEMENT BLOCK OR CONCRETE

(Scale 6″ = 1′-0″)



FRAME

(Scale 6" = 1'-0")



TRUSCON HOUSING CASEMENTS

For economical fenestration the Truscon Housing design has no peer in the window field.

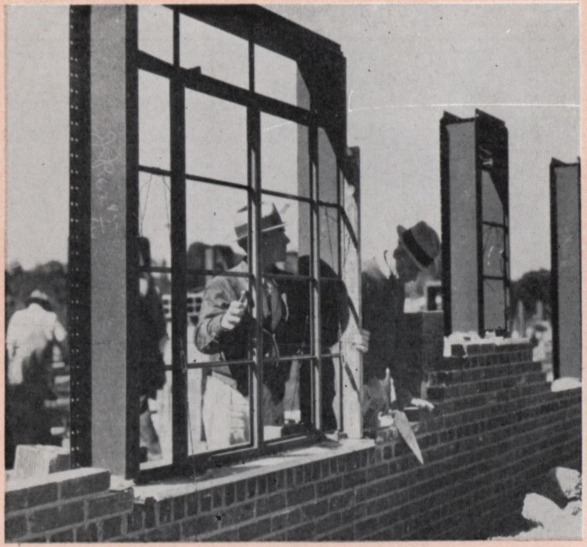
Available in a wide range of sizes and with any percentage of ventilator opening, it is readily adaptable to meet the legal minimum in glass and ventilating areas as may be required on any form of group housing.

Contributing to the outstanding low cost of this product, as has been repeatedly disclosed by the savings in its favor offered by general contractors in competitive bidding, is the substantial elimination of high-cost field labor.

When combined with an interior sheet steel casing, also furnished by Truscon, the complete unit eliminates plaster returns at the jambs and head. Also included is a steel stool and a metal corner bead around the entire window perimeter.

Fixed interior screens provided with horizontally sliding wickets to permit access to the ventilator locking handles, together with simple, sturdy hardware and adjustable friction hinges (extension cleaning type) complete the Housing Window assembly.

The entire unit is factory assembled with all hardware attached. After setting the unit in place it is built into the masonry wall. Glazing and field painting follow in due course completing the window construction in final form ready for building occupancy.



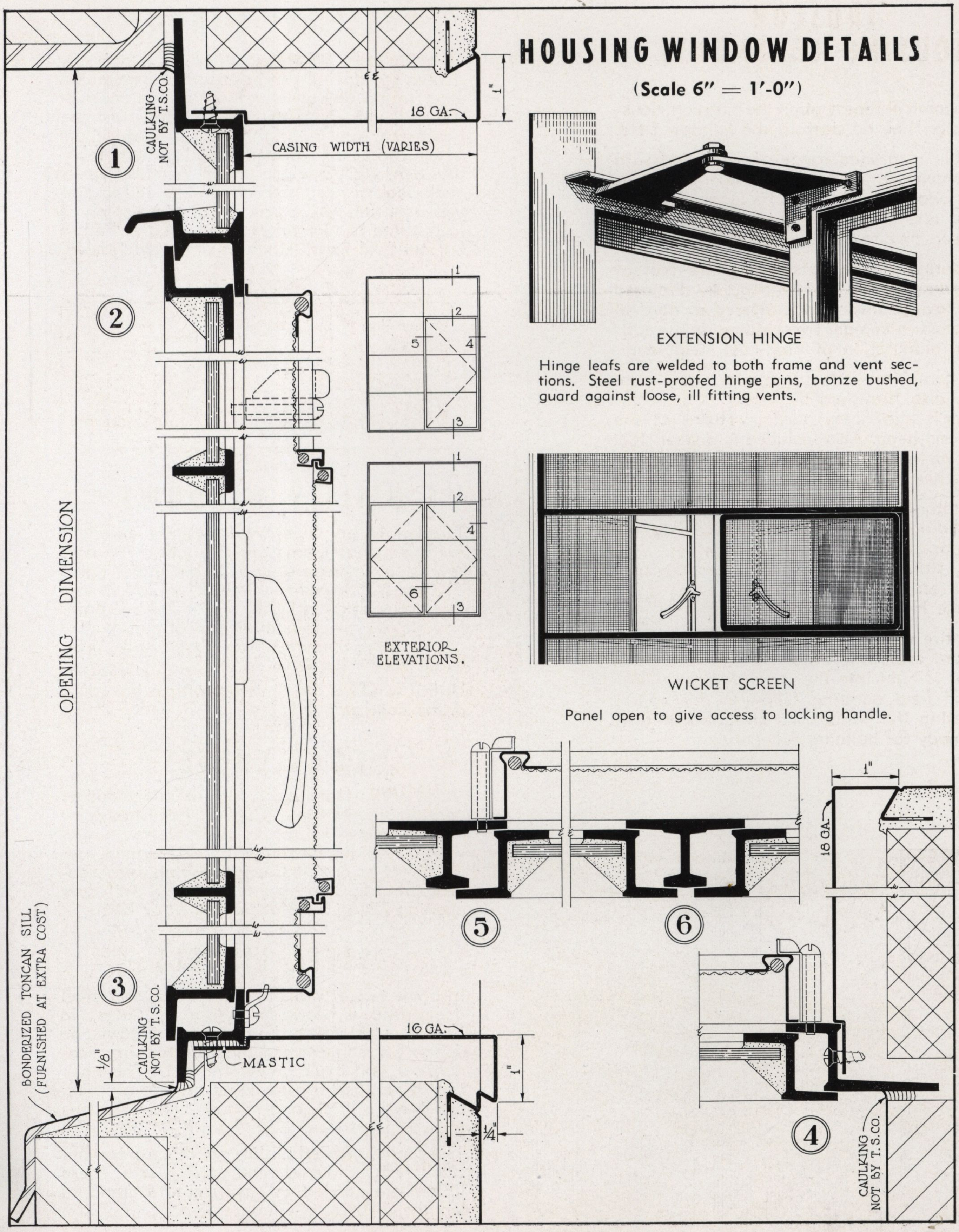
INSTALLING CASEMENTS IN HOUSING PROJECT

MEETING STREET MANOR HOUSING PROJECT
Charleston, South Carolina

KENFIELD HOUSING PROJECT, Buffalo, New York

HOUSING WINDOW DETAILS

(Scale 6″ = 1′-0″)

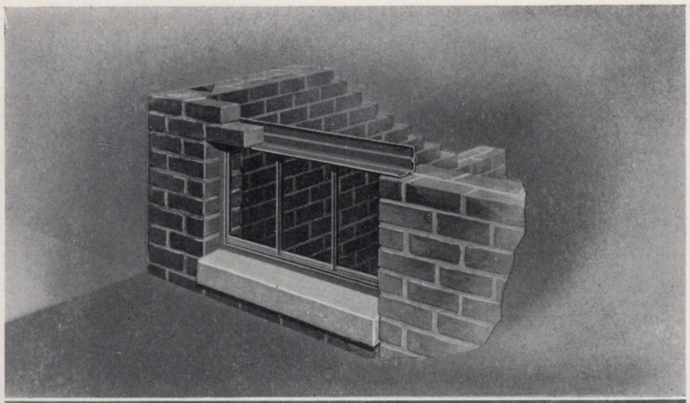


EXTENSION HINGE

Hinge leafs are welded to both frame and vent sections. Steel rust-proofed hinge pins, bronze bushed, guard against loose, ill fitting vents.

WICKET SCREEN

Panel open to give access to locking handle.



BASEMENT WINDOWS

Truscon Steel Basement Windows practically double the daylight in basements. The strong steel frame and slender muntin bars obstruct the very minimum of daylight and turn the basement into a bright and cheerful room which can be sub-divided into play room, laundry, den, etc. Steel Basement Windows never stick, leak or need repairs. Bonderized to prevent rust and with a prime coat of paint which lasts three to five times longer. Furnished in six standard sizes, either top or bottom hinged.

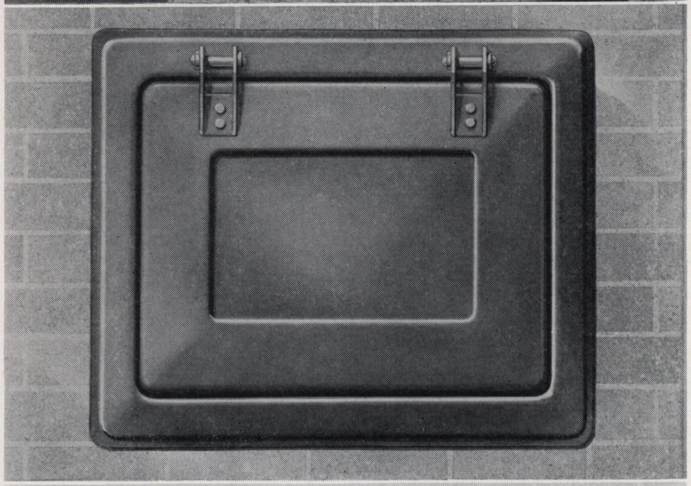
STOCK SIZES

Glass Size	Lights	Window Opening Size
10″ x 12″	2	1′-11¼″ x 1′- 3″
14″ x 20″	2	2′- 7¼″ x 1′-11″
10″ x 12″	3	2′- 9½″ x 1′- 3″
10″ x 16″	3	2′- 9½″ x 1′- 7″
10″ x 20″	3	2′- 9½″ x 1′-11″
12″ x 18″	3	3′- 3½″ x 1′- 9″

UTILITY WINDOWS

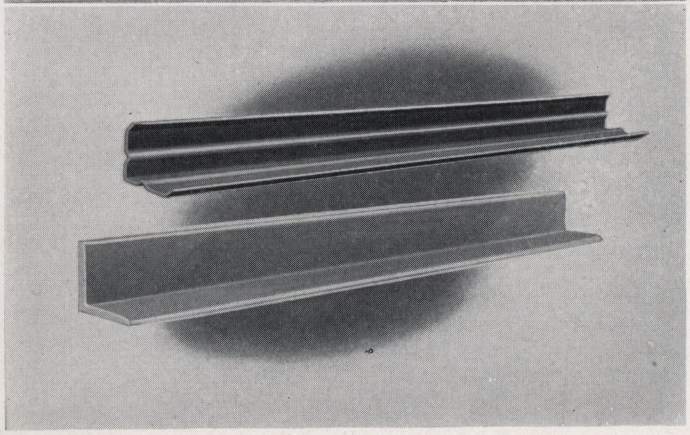
Truscon Utility Steel Windows are excellent for use in basements and garages. The narrow steel members and large glass lights (12″ x 20″ in ventilator; 13″ x 20″ in two fixed outside glass lights; 12″ x 20″ in center fixed light) give maximum daylight. Furnished in one type, opening in, as illustrated. Size: width 3′-4″; height 3′-7⅝″.

Utility windows are finished with a baked-on prime coat of paint.



COAL CHUTES

Made entirely of heavy, rust-resisting, copper bearing pressed steel. They are furnished complete with positive spring latch, slotted hinges which hold the door open, and formed lugs which act as anchors for cementing in masonry openings. Size: frame 27″ x 21¼″; door opening 22½″ x 16¾″; depth 8″ or 12″.



STEEL LINTELS

In brick veneer walls or solid walls, over steel doors and windows, in plain openings, in fireplaces or with ordinary wood windows and doors, Truscon Formed Steel Lintels are economical and offer great strength. The horizontal ribs and turned edges provide a proper bed for the brick and mortar. They are furnished in standard sizes from 2′-0″ to 7′-0″.

Truscon Hot Rolled Lintels are made from new stock; no reclaimed material is used. These lintels are carried in stock, cut to standard lengths, 2′-0″ to 9′-0″.

The Complete Line of

Truscon Steel Building Products

STEEL WINDOW PRODUCTS

Double-Hung Windows
Donovan Awning Type
Pivoted Windows
Utility Windows
Continuous Windows
Detention Windows
Commercial Projected
Architectural Projected
Casement Projected
Steel Casements
Tempryte Insulating Windows
Casement Screens
Basement Windows
Steel Sub-Frames
Mechanical Operators
Formed Steel Lintels
Hot Rolled Lintels
Coal Chute Doors

STEEL DOORS

Swing and Slide
Bifold
Canopy Type
Overdoor
Crane Door
Accordian Type
Vertical Lift
Morgan Canopy Door
Vertical Lift-Swing
Telescoping Canopy
Original "Kanopy" Type
Airplane Hangar

FLOOR SYSTEMS

Teegrid Bridge Floors
Unigrid Floors
Channelplate Construction
Steel Paving Blocks
Plategrid Gratings
Floorgrid Reinforcing

STEELDECK ROOFS (Insulated)

Ferrobord

STEEL JOISTS

Open Truss Joists
Plate Girder Joists
Nailer Joists
Clerespan Joists
Accessories

RAILROAD CROSSINGS

Weltrus Crossings

METAL LATH PRODUCTS

A-Metal Laths
Herringbone Doublemesh
Diamond Rib Laths
Diamond Laths
Self-Sentering and Trussit
Stucco Steel and Strip-ite
Metal Plasterbord
Insulmesh
Corner Beads and Cornerite
Channels
Hollow Partition Studs
Mortar Boxes
Metal Trim

REINFORCING STEEL

Rib Bars
Kahn Trussed Bars
Column Hooping
Floretyle Construction
Locktyle Construction
Bank Vault Reinforcing
Pressed Steel Inserts

ROAD REINFORCING

Welded Steel Fabric
Contraction Plates
Expansion Joints
Edge Protectors
Curb Bars
Road Forms
Steel Guard Rails
Traffic Markers

STEEL FACED INSULATION

Ferroclad Panels

STEEL POLES

Weltrus Type
H-Frames
Floodlight Towers
Pipe Line Supports
Radio Towers
Sub-Stations

PRESSED AND DRAWN STEEL

Refrigerator Stamping
Axle Housings
Washing Machine Tubs
Automotive Frame Parts
Steel Platforms
Steel Boxes
Foundry Flasks
Brake Shoe Backs
Tunnel Liner Plates
Single Wall Beer Barrels
Double Wall Beer Barrels
Pressed Steel Stampings from 20 gauge on refrigerator stampings to the heavier gauges used on automotive part stampings.

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and Warehouses

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San Antonio, Texas...909 Builders Exchange Bldg.
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●

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t & Aetna Road
ve. & Austin St.
Wynkoop Street
Central Avenue
Wilhelm Streets
Gillette Streets
& Clark Streets
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